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ABSTRACT

Compiled are abstracts and indexes to selected print and non-print materials related to wastewater treatment and water quality education and instruction, as well as materials related to pesticides, hazardous wastes, and public participation. Sources of abstracted/indexed materials include all levels of government, private concerns, and educational institutions. Title, author(s), publication date, cross-references, descriptors, and availability are provided for each entry. Procedures are outlined by which instructors and curriculum developers in the water quality control field can locate instructional materials to meet general or highly specific requirements of their programs. Also included are an author and subject index. This publication supplements and does not replace "Water Quality Instructional Resources Information System (IRIS): A Compilation of Abstracts to Water Quality and Water Resources" or IRIS supplements 1-28. (ML)

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ED282736

Prepared by

Environmental Quality Instructional Resources Center
SMEAC Information Reference Center
The Ohio State University
1200 Chambers Road, Room 310
Columbus, OH 43212

WATER QUALITY INSTRUCTIONAL RESOURCES INFORMATION SYSTEM (IRIS)

A Compilation of Abstracts to Water Quality and Water Resources Materials

Supplement 29, 1987

U.S. DEPARTMENT OF EDUCATION
Office of Educational Research and Improvement
EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)

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Robert N. Hawe

TO THE EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)."

SE 048 159

March, 1987

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Preface

This publication contains abstracts and indexes to selected materials related to wastewater treatment and water quality education and instruction. In addition, some materials related to pesticides, hazardous wastes, and public participation are included. Also included are procedures to illustrate how instructors and curriculum developers in the water quality control field can locate instructional materials to meet very general or highly specific requirements in their programs.

Supplements to this publication will be issued periodically.

For further information about these materials contact:

Environmental Quality Instructional Resources Center
1200 Chambers Road, Room 310
Columbus, Ohio 43212

(614) 292-6717

I. General Information about Materials in IRIS.

A. What types of materials are included in IRIS?

The Environmental Quality Instructional Resources Center acquires, reviews, indexes, and announces both print (books, modules, units, etc.) and non-print (films, slides, video tapes, etc.) materials related to water quality and water resources education and instruction.

Materials selected must be available from some source for announcement. When materials are not readily available we attempt to make the materials available through some national information service for easier acquisition. In a few cases the Environmental Quality Instructional Resources Center is the source of the materials.

B. How are materials entered into IRIS?

We request that people assist us in locating materials for the system. If you have materials you believe to be useful to others, please send two copies if possible to the:

Environmental Quality (EQ) Instructional Resources Center
1200 Chambers Road, Room 310
Columbus, Ohio 43212

Materials are reviewed by the project staff. Availability of the materials is checked, and the materials are abstracted and indexed. The abstract describes the contents of the material. The index terms (descriptors) are concepts or terms used to describe the contents and the form of the document. (See the Subject Index for a listing of those that have been used.) The index terms are useful for locating materials manually, such as with this supplement, and also by computer.

When items are processed they are entered on the IRIS (water) computer tape. This tape is maintained by the EQ Instructional Resources Center at The Ohio State University and is used for producing tapes for other information systems, publications, and for computer searches conducted at The Ohio State University.

C. How can a user locate materials in IRIS?

1. All materials placed in IRIS (water) collection.

Materials entered into the IRIS (water) collection can be located in two ways: (1) by manual search of the 1983 compilation and supplements that follow and (2) by computer.

The compilation produced in 1983 includes the original IRIS (1979) and Supplements 1-15. It is available for $75.00.

Quarterly updates of the compilation are available by subscription on a yearly basis. Information regarding an annual subscription to IRIS (water) Quarterly Compilations can be obtained by writing to the EQ Instructional Resources Center. A subscription to the quarterly supplements for 1985 is $12.00 (within the U.S.). Price to Canada and Mexico is $14.00. Prices in other Countries is $18.00. Separate quarterly supplements are $5.00 each.

The compilation and the quarterly supplements can be scanned and the subject index can be used for manual searches.

Computer tapes of the IRIS (water) collection can also be searched. The IRIS tapes are available for searching at The Ohio State University and will again be available for computer searching at other sites in the future.

2. Materials placed in the Educational Resources Information System (ERIC)

A number of the materials processed for the IRIS (water) system are entered into the ERIC system and announced in Resources in Education (RIE). Resources in Education (RIE) is published monthly and is available from:

Superintendent of Documents
U.S. Government Printing Office
Washington, DC 20402
(202) 783-3238

The current price is listed in the most recent issue of RIE. Check if a college or university library close to you has a copy. If they do not, contact the EQ Instructional Resources Center for assistance.

Many libraries subscribe to RIE. Materials announced in RIE can be searched manually each month by scanning RIE or by checking the index terms in the back of each issue. Materials announced in RIE can be searched by computer also. ERIC computer tapes may be purchased outright, but users can access them through Dialog, BRS, CompuServe and Systems Development Corporation (Orbit). For the address of search services in your state that can search these databases, contact the:

EQ Instructional Resources Center
1200 Chambers Road, Room 310
Columbus, Ohio 43212
(614) 292-6717

Most of the materials announced in RIE are available on microfiche (microfilm) at over 700 sites throughout the United States and the world. Users can view these materials on site at many locations to identify what they believe will be useful to them at no cost. Microfiche copies (or in most cases Xerox copies) can be ordered through the ERIC Document Reproduction Service. The address and order information is in the back of each issue of RIE. Xerox copies of many items related to water quality and resource education and training can also be ordered through the EQ Instructional Resources Center for $0.06 per page plus $1.00 per document.

For information about locations of ERIC microfiche sites in your state, contact the EQ Instructional Resources Center.

A number of journal articles processed for the IRIS (water) system are entered into the ERIC system and announced in Current Index to Journals in Education (CIJE).

Current Index to Journals in Education is published monthly and is available from:

ORYX Press
2214 North Central at Encanto
Phoenix, Arizona 85004
(602) 254-6156

Many libraries subscribe to CIJE. Materials announced in CIJE can be searched manually each month by scanning CIJE or by checking the index terms in the back of each issue. Materials announced in CIJE can be searched by computer also. Refer to the previous discussion of RIE concerning computer searches.

Materials announced in CIJE can be located in journals at many university libraries.

Many of the articles can be obtained from University Microfilms. For prices and further information write to:

UMI Article Reprint Department
300 North Zeeb Road
Ann Arbor, Michigan 48106
(800) 521-0600

II. How to Use the Compilation

A. Description of Information in Resumes

Each resume is listed by EW number in numerical order in the resume section. Two samples of resumes are provided to explain the data fields in the resumes. Sample resume #1 is a sample resume of an item not entered into ERIC. Sample resume #2 is a sample resume of an item entered into ERIC; a few additional data elements are in these resumes and are explained.

1. Sample resume of materials not entered in ERIC

a. IRIS NUMBER: EW006023
b. PUBLICATION DATE: FEB 81
c. TITLE: PROGRAMMED APPROACH TO WATER/MASS ANALYSES.
d. PERSONAL AUTHOR: SPENCE, GEORGE R., JR.
e. DESCRIPTOR: *DESIGN; *ENGINEERING; *EQUIPMENT; *MASS BALANCE; *PROJECT DESIGN; *POLLUTION ENGINEERING; *PIPES; *WATER RESOURCES

f. DESCRIPTIVE NOTE: 30-33P.
g. ABSTRACT: DURING THE ENGINEERING PHASE OF A PROJECT DESIGN, WATER REQUIREMENTS OFTEN CHANGE AS NEW INFORMATION BECOMES AVAILABLE. THIS ARTICLE DETAILS A PROGRAMMED APPROACH TO CALCULATION OF A WATER/MASS BALANCE WHICH PROVIDES THE USER WITH THE ABILITY TO READILY ASSESS THE IMPACT OF VARYING WATER QUALITIES, FLOW PATTERNS, AND FLOW RATES. THIS INFORMATION IS THEN USED IN DETERMINING PIPE AND EQUIPMENT SIZES.

h. AVAILABILITY: POLLUTION ENGINEERING; V13 N2

a. IRIS NUMBER -- this is the identification number sequentially assigned to materials as they are processed. Gaps in numbers mean that some items have been deleted, are being processed to add new information, or have been delayed in processing for some reason.

b. PUBLICATION DATE -- date material was published according to information on the material.

c. TITLE

d. PERSONAL AUTHOR -- person or persons who wrote, compiled, or edited the material. Up to two personal authors can be listed.

e. DESCRIPTOR -- subject terms which characterize substantive contents and form of the materials. The major terms are preceeded by an asterisk. Terms used to index all resumes in this compilation can be reviewed in the Subject Index.

f. DESCRIPTIVE NOTE -- various items of information may be contained in this section. For print materials the number of pages is usually listed. The price of the material quoted is the last time information was received from the source. Please note: Prices of nearly all materials are subject to changes and may not be accurate at the time a person orders a specific item.

g. ABSTRACT -- some early materials entered into IRIS did not have abstract information. All materials currently being entered into IRIS have an informative abstract that describes the contents of the item.

h. AVAILABILITY -- information in this field indicates where the material can be obtained.

2. Sample resume of material entered into ERIC (Resources in Education).

Items entered into ERIC (Resources in Education) will have a few additional data fields. See letter references "a" and "b" below.

IRIS ACCESSION NUMBER: EW006664
PUBLICATION DATE: 80
TITLE: RESOURCE DEVELOPMENT OF WATERSHED LANDS: A SIX WEEK SHORT COURSE.
DESCRIPTOR: ADMINISTRATION; ECOLOGICAL FACTORS; ECONOMIC FACTORS; INSTRUCTIONAL MATERIALS; *LAND USE; NATURAL RESOURCES; *POST SECONDARY EDUCATION; *TECHNICAL EDUCATION; *WATER RESOURCES; HYDROLOGY; NATURAL RESOURCES MANAGEMENT; WATER QUALITY; *WATERSHEDS

b. DESCRIPTIVE NOTE: EDRS PRICE: MF01 PLUS POSTAGE-NOT AVAILABLE IN HARD COPY DUE TO MARGINAL LEGIBILITY OF ORIGINAL DOCUMENT.

ABSTRACT: THIS COURSE WAS DESIGNED TO PROVIDE THE WATER RESOURCE TECHNICIAN OR MANAGER WITH INFORMATION WHICH WILL AID IN THE IMPLEMENTATION OF IMPROVEMENTS OF PRESENT LAND USE PRACTICES AND TO ILLUSTRATE ALTERNATIVE CONCEPTS AND TECHNIQUES IN LAND AND WATER USE FOR INCREASING AND IMPROVING THE MULTIPLE PRODUCTS OF WATERSHED LANDS. (ED 197 941)

a. AVAILABILITY: ERIC DOCUMENT REPRODUCTION SERVICE, 3900 Wheeler Avenue, Alexandria, VA 22304

a. ERIC NUMBER -- the ED number indicates the document has been processed and entered into Resources in Education. This identification number is the number to use when ordering a document or when requesting information about a document.

b. EDRS PRICE -- if material is available through the ERIC Document Reproduction Service, the price of the material when it was entered into the ERIC system and the form of the material is indicated. "MF" means microfiche; "HC" means Xerox copy. Prices are subject to change. Current prices of microfiche and paper copies are listed in the back of each issue of Resources in Education; consult the latest monthly issue for current prices. Information about ordering items can be obtained by contacting:

ERIC Document Reproduction Service (EDRS)
3900 Wheeler Avenue
Alexandria, VA 22304
(800) 227-3742

Items that are available on microfiche (MF) are contained in microfiche collections at over 700 sites where they can be read. For information on the microfiche locations in your state contact the EQ Instructional Resources Center.

B. How to Locate Desired Materials

Users can identify materials of interest by scanning the resume listings, or using the Subject Index or Author Index.

1. Subject Index

The Subject Index is designed to enable the user to search for information on either a broad subject or a narrow information concern. An EW number is included for each item listed under the subject heading. The EW number refers to the abstract entry in the resume section where complete bibliographic information, an abstract of the item, and availability information can be found.

A user can also coordinate a search by checking EW numbers that appear under two or more subject headings. For example, you could check all the EW numbers under Water Treatment and all the EW numbers under Films. EW numbers included under both subject headings would include information relevant to Water Treatment that were films. EW numbers under wastewater treatment and laboratory techniques would provide a list of materials related to Laboratory Techniques and to Wastewater Treatment. Similar techniques could be used to identify other information desired.

Users with ERIC microfiche should check the resume entry. If the document is available on microfiche from the ERIC Document Reproduction Service, the availability will be indicated by "MF" on the resume by "EDRS Price." This means libraries with ERIC microfiche collections should have the document on microfiche.

If you want a document available through the ERIC Document Reproduction Service (EDRS) see the section on ordering documents.

2. Author Index

If you desire to locate a document by the name of the author, you can use the Author Index. EW numbers are provided under the author in the Author Index as in the Subject Index. Some documents do not have a listed author; hence, they are not listed in this index.

III. Correcting an Existing IRIS Record

The IRIS data base will be updated on a quarterly basis. Corrections will be made to the data base at those times. You can help improve IRIS by sending corrections for items you find to be in error.

We request that you duplicate (copy) the resume from the compilation, mark the information you believe to be wrong (or incomplete), and send the marked resume to:

EQ Instructional Resources Center
1200 Chambers Road, Room 310
Columbus, Ohio 43212
(614) 292-6717

Corrections of errors will occur in the IRIS tapes at the next update after comments are received.

If you have difficulty obtaining materials from the listed source in the AVAILABILITY section of the resume, please let us know. We will contact the sources to verify whether the materials are available, but your assistance will provide corrections between annual availability checks.

If you are the supplier of materials in IRIS, please let us know if you remove a product from your list, modify a product on your list, or change the price of the product.

IV. Requests to Receive Information about IRIS and the IRC Bulletin

Information regarding IRIS, materials in IRIS, and modifications in the system will be announced in the IRC Bulletin. The Bulletin is issued about four times a year as information is available.

If you are not on the mailing list write to the EQ Instructional Resources Center for subscription information.

If you need information about IRIS you can also phone (614) 292-6717 with your questions.

V. Requests for Assistance in Using IRIS

If you need help in using the IRIS manuals, phone (614) 292-6717 or write to the EQ Instructional Resources Center. Staff are normally available from about 8:30 a.m. to 4:30 p.m. Eastern time to answer your questions.

VI. How to Locate Other Relevant Educational Materials

A number of people have requested information related to such areas as management, basic skills (reading, mathematics, writing) human relations, contract negotiations, and other topics. The EQ Instructional Resources Center has developed or obtained some materials in these areas.

Another excellent source of information for many educational concerns is the ERIC System.

ERIC is a national information system designed and developed by the U.S. Office of Education, and now supported and operated by the National Institute of Education (NIE), for providing ready access to descriptions of exemplary programs, research and development efforts, and related information that can be used in developing more effective educational programs.

There are 16 Clearinghouses in the nationwide ERIC network. Each specializes in a different, multi-discipline, educational area. Each searches out pertinent documents.

The ERIC Clearinghouses have responsibility within the network for acquiring the significant educational literature within their particular areas, selecting the highest quality and most relevant material, processing (i.e., cataloging, indexing, abstracting) the selected items for input to the data base, and also for providing information analysis products and various user services based on the data base.

The 16 ERIC Clearinghouses are listed on the next few pages, together with addresses, telephone numbers, and brief scope notes describing the areas they cover. You can contact them for assistance in locating information relevant to their scope notes.

A. ERIC Clearinghouse on Adult, Career, and Vocational Education
The Ohio State University
National Center for Research in Vocational Education
1960 Kenny Road
Columbus, Ohio 43210
Telephone: (614) 486-3655

Career education, formal and informal at all levels, encompassing attitudes, self-knowledge, decision-making skills, general and occupational knowledge, and specific vocational and occupational skills; adult and continuing education, formal and informal, relating to occupational, family, leisure, citizen, organizational, and retirement roles; vocational and technical education, including new sub-professional fields, industrial arts, and vocational rehabilitation for the handicapped.

B. ERIC Clearinghouse on Counseling and Personnel Services
University of Michigan
School of Education, Room 2108
Ann Arbor, Michigan 48109
Telephone: (313) 764-9492

Preparation, practice, and supervision of counselors at all educational levels and in all settings, theoretical development of counseling and guidance, use and results of personnel procedures such as testing, interviewing, disseminating, and analyzing such information, group work and case work; nature of pupil, student, and adult characteristics; personnel workers and their relation to career planning, family consultations, and student orientation activities.

C. ERIC Clearinghouse on Elementary and Early Childhood Education
University of Illinois
College of Education
805 West Pennsylvania Avenue
Urbana, Illinois 61801
Telephone: (217) 333-1386

Prenatal factors, parental behavior; the physical, psychological, social, educational, and cultural development of children from birth through the primary grades; educational theory, research and practice related to the development of young children.

D. ERIC Clearinghouse on Educational Management
University of Oregon
Library, Room 108
1787 Agate Street
Eugene, Oregon 97403
Telephone: (503) 686-5043

Leadership, management, and structure of public and private educational organizations; practice and theory of administration; preservice and inservice preparation of administrators, tasks and processes of administration, methods and varieties of organization, organizational change, and social context of the organization.

Sites, buildings, and equipment for education; planning, financing, constructing, renovating, equipping, maintaining, operating, insuring, utilizing, and evaluating educational facilities.

E. ERIC Clearinghouse on Handicapped and Gifted Children
Council for Exceptional Children
1920 Association Drive
Reston, Virginia 22091
Telephone: (703) 620-3660

Aurally handicapped, visually handicapped, mentally handicapped, physically handicapped, emotionally disturbed, speech handicapped, learning disabilities, and the gifted; behavioral, psychomotor, and communication disorders, administration of special education services; preparation and continuing education of professional and paraprofessional personnel; preschool learning and development of the exceptional; general studies on creativity.

F. ERIC Clearinghouse on Higher Education
George Washington University
One Dupont Circle, NW, Suite 630
Washington, DC 20036
Telephone: (202) 296-2597

Various subjects relating to college and university students, college and university conditions and problems, college and university programs; curricular and instructional problems and programs, faculty, institutional research; federal programs, professional education (medical, law, etc.), graduate education, university extension programs, teaching-learning, planning, governance, finance, evaluation, interinstitutional arrangements, and management of higher educational institutions.

G. ERIC Clearinghouse on Information Resources
Syracuse University
School of Education
Huntington Hall, Room 030
150 Marshall Street
Syracuse, New York 13210
Telephone: (315) 423-3640

Management, operation, and use of libraries; the technology to improve their operation and the education, training, and professional activities of librarians and information specialists. Educational techniques involved in microteaching, systems analysis, and programmed instruction employing audiovisual teaching aids and technology, such as television, radio, computers, and cable television, communication satellites, microforms, and public television.

H. ERIC Clearinghouse for Junior Colleges
University of California at Los Angeles (UCLA)
Mathematical Sciences Building, Room 8118
405 Hilgard Avenue
Los Angeles, California 90024
Telephone: (213) 825-3931

Development, administration, and evaluation of public and private community junior colleges. Junior college students, staff, curricula, programs, libraries, and community services.

I. ERIC Clearinghouse on Languages and Linguistics
Center for Applied Linguistics
1118 "22nd" Street, NW
Washington, DC 20037
Telephone: (202) 429-9551

Languages and linguistics. Instructional methodology, psychology of language learning, cultural and intercultural content, application of linguistics, curricular problems and developments, teacher training and qualifications, language sciences, psycholinguistics, theoretical and applied linguistics, language pedagogy, bilingualism, and commonly taught languages including English and speakers of other languages.

J. ERIC Clearinghouse on Reading and Communication Skills
National Council of Teacher of English
1111 Kenyon Road
Urbana, Illinois 61801
Telephone: (217) 328-3870

Reading, English, and communication skills, preschool through college. Educational research and development in reading, writing, speaking, and listening. Identification, diagnosis, and remediation of reading problems. Speech communication--forensics, mass communication, interpersonal and small group interaction, interpretation, rhetorical and communication theory, instruction development, speech sciences, and theater. Preparation of instructional staff and related personnel in these areas.

All aspects of reading behavior with emphasis on physiology, psychology, sociology, and teaching. Instructional materials, curricula, tests and measurement, preparation of reading teachers and specialists, and methodology at all levels. Role of libraries and other agencies in fostering and guiding reading. Diagnostic and remedial services in school and clinical settings.

K. ERIC Clearinghouse on Rural Education and Small Schools
New Mexico State University
Box 3AP
Las Cruces, New Mexico 88003
Telephone: (505) 646-2623

Education of Indian Americans, Mexican Americans, Spanish Americans, and migratory farm workers and their children; outdoor education; economic, cultural, social, or other factors related to educational programs in rural areas and small schools; disadvantaged of rural and small school populations.

L. ERIC Clearinghouse for Science, Mathematics and Environmental Education
The Ohio State University
1200 Chambers Road - Room 310
Columbus, Ohio 43212
Telephone: (614) 292-6717

All levels of science, mathematics, and environmental education; development of curriculum and instructional materials; media applications; impact of interest, intelligence, values, and concept development upon learning; preservice and inservice teacher education and supervision.

M. ERIC Clearinghouse for Social Studies/Social Science Education
Indiana University
Social Studies Development Center
2805 East 10th St.
Bloomington, IN 47405
Telephone: (812) 335-3838

All levels of social studies and social science; all activities relating to teachers; content of disciplines; applications of learning theory, curriculum theory, child development theory, and instructional theory; research and development programs; special needs of student groups; education as a social science; social studies/social science and the community.

N. ERIC Clearinghouse on Teacher Education
American Association of Colleges for Teacher Education (AACTE)
One Dupont Circle, NW, Suite 610
Washington, DC 20036
Telephone: (202) 293-2450

School personnel at all levels, all issues from selection through preservice and inservice preparation and training to retirement; curricula, educational theory and philosophy; general education not specifically covered by Educational Management Clearinghouse; Title XI NDEA Institutes not covered by subject speciality in other ERIC Clearinghouses; all aspects of physical education.

O. ERIC Clearinghouse on Tests, Measurement, and Evaluation
Educational Testing Service (ETS)
Rosedale Road
Princeton, New Jersey 08541
Telephone: (609) 734-5176

Tests and other measurement devices; evaluation procedures and techniques; application of tests, measurement, or evaluation in educational projects of programs.

P. ERIC Clearinghouse on Urban Education
Teachers College, Columbia University
Institute for Urban and Minority Education
Box 40
525 West 120th Street
New York, New York 10027
Telephone: (212) 678-3433

The relationship between urban life and schooling; the effect of urban experiences and environments from birth onward; the academic, intellectual, and social performance of urban children and youth from grade three through college entrance (including the effect of self concept, motivation, and other affective influences), education of urban, Puerto Rican and Asian American

populations, and rural and urban black populations; programs and practices which provide learning experiences designed to meet the special needs of diverse populations served by urban schools and which build upon their unique as well as their common characteristics, structural changes in the classroom, school, school system, and community and innovative instructional practices which directly affect urban children and youth; programs, practices, and materials related to economic and ethnic discrimination, segregation, desegregation, and integration in education; issues, programs, practices, and materials related to redressing the curriculum imbalance in the treatment of ethnic minority groups.

Q. Educational Resources Information Center
Office of Educational Research and Improvement (OERI)
555 New Jersey, Ave. NW
Room 522
Washington, DC 20208
Telephone: (202) 626-9240

There are other sources of educational information in many states. Included are information dissemination units in the state departments of education, intermediate education units, and local education units. In many cases, a local school administrator or school librarian can help you locate assistance.

VII. How to Order Materials

The AVAILABILITY field in the resume indicates where materials can be obtained. A few of the sources are explained.

A. A number of audiovisual materials can be obtained on a rental basis or purchased from the EQ Instructional Resources Center. Most items previously available from the NTOTC office are available from the EQ Instructional Resources Center at The Ohio State University. For further information write or call.

B. Some of the materials are available through the ERIC Document Reproduction Service. MF (microfiche) are 4" x 6" sheets of microfilm; up to 96 pages of text can be reproduced on one sheet. HC (paper copy) is a reproduction of the document in paper form at the original size.

Order forms for these materials can be obtained from:

ERIC Document Reproduction Service
3900 Wheeler Avenue
Alexandria, VA 22304
(800) 227-3742

C. The EQ Instructional resources Center will provide Xerox copies of materials that are not copyrighted for $1.00 per document plus $0.06 per page.

If you can not obtain materials that are listed or have difficulty obtaining materials, please contact the EQ Instructional Resources Center. We can provide assistance in obtaining materials from some sources. If materials become unavailable, we will remove them from the IRIS data base.

RESUME SECTION

IRIS ACCESSION NUMBER: EW013167

TITLE: DESIGN HYDROGRAPHS BY THE DRAINAGE BASIN RUNOFF MODEL (DABRO).

PERSONAL AUTHOR: GOLDING, BERNARD L.

DESCRIPTOR: BASIC LANGUAGE; COMPUTER APPLICATIONS; COMPUTER PROGRAMS; *COMPUTER SOFTWARE; *HYDROGRAPHS; DRAINAGE BASINS; DABRO MODEL; *SURFACE RUNOFF

DESCRIPTIVE NOTE: PRICE: $85.00

ABSTRACT: THE MODEL PRESENTED IN THIS BOOK, WILL COMPUTE A HYDROGRAPH OF RUNOFF (DESIGN HYDROGRAPH) FROM A BASIN BY COMPUTING THE HYDROGRAPHS OF RUNOFF OF THE VARIOUS SUBBASINS COMPRISING THE TOTAL DRAINAGE BASIN (BY THE APPLICATION OF RAINFALL-EXCESS TO THE UNIT HYDROGRAPH OF EACH SUBBASIN) AND THEN COMBINING AND/OR FLOOD ROUTING THE RESULTING SUBBASIN HYDROGRAPHS DOWN THE RIVER CHANNEL AND THROUGH RESERVOIRS TO GIVE THE TOTAL HYDROGRAPH OF RUNOFF FROM THE BASIN. IT WILL THEN PLOT A GRAPH (TIME IN HOURS VS DISCHARGE IN CFS) OF THE FINAL TOTAL BASIN HYDROGRAPH. THIS MODEL IS SIMILAR TO TR-20 AND HEC-1 AND PRODUCES ALMOST IDENTICAL RESULTS OF THESE LARGE MAINFRAME PROGRAMS. HOWEVER, IT IS WRITTEN IN BASIC FOR USE ON MICROCOMPUTERS.

AVAILABILITY: HILBERN ENGINEERING SOFTWARE, 8982 ISLESWORTH COURT, BAY HILL, ORLANDO, FL 32819

IRIS ACCESSION NUMBER: EW013740

PUBLICATION DATE: AUG 86

TITLE: FOCUS ON HAZARDOUS MATERIALS: METHYL ALCOHOL (MAL).

DESCRIPTOR: *CHEMICALS; *ACCIDENT PREVENTION; *EMERGENCY RESPONSE; *HAZARDOUS MATERIALS; *HEALTH EFFECTS; *MATERIALS HANDLING; *SAFETY; *POLLUTION CONTROL

DESCRIPTIVE NOTE: 43P.

ABSTRACT: DESCRIBED IS METHYL ALCOHOL, RECOMMENDING PERSONNEL PROTECTING, RECOMMENDED SHIPPING AND STORAGE PROCEDURES, FIRE PROCEDURES, AND SPILL PROCEDURES.

AVAILABILITY: INDUSTRIAL FIRE WORLD; V1 N2

IRIS ACCESSION NUMBER: EW013788

PUBLICATION DATE: 85

TITLE: FEMWATER1; FEMWASTE1; WATER OR WASTE TRANSPORT (NRC CODE).

PERSONAL AUTHOR: YEH, G. T.

DESCRIPTOR: *COMPUTER SOFTWARE; *FEMWATER1; *FEMWASTE1; *MODELS; *POROUS MEDIA; *WATER FLOW; *WASTE TRANSPORT; *COMPUTER APPLICATIONS

DESCRIPTIVE NOTE: PRICE CODE: CP T17. ORDER NO.: DE86057902/WEP

ABSTRACT: THE FEMWATER1 AND FEMWASTE1 PROGRAMS MODEL WATER FLOW AND WASTE TRANSPORT, RESPECTIVELY, THROUGH SATURATED UNSATURATED POROUS MEDIA. THE SPECIAL FEATURES OF THESE PROGRAMS ARE THEIR FLEXIBILITY AND VERSATILITY IN MODELING REAL-WORLD PROBLEMS.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW013808

PUBLICATION DATE: FEB 86

TITLE: REPORT TO CONGRESS ON THE DISCHARGE OF HAZARDOUS WASTES TO PUBLIC OWNED TREATMENT WORKS (THE DOMESTIC SEWAGE STUDY).

PERSONAL AUTHOR: O'FARRELL, T. P.; AND OTHERS

DESCRIPTOR: *CHEMICALS; *COMMERCIAL WASTES; *CONGRESSIONAL REPORTS; *HAZARDOUS WASTES; *INDUSTRIAL WASTES; *SEWAGE; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 465P. PRICE CODE: PC A20/MF A01. ORDER NO.: PB86-184017/WEP

ABSTRACT: THE REPORT WAS PREPARED IN RESPONSE TO SECTION 3018(A) OF THE 1984 AMENDMENTS TO THE RESOURCE CONSERVATION AND RECOVERY ACT (RCRA). THE CONGRESS ASKED THE AGENCY TO DETERMINE THE TYPES, SIZE AND NUMBERS OF GENERATORS OF HAZARDOUS WASTE THAT DISCHARGE THEIR WASTE TO POTW'S, THE TYPES AND QUANTITIES OF THEIR WATER, AND SIGNIFICANT SOURCE NOT SUFFICENTLY REGULATED TO PROTECT HUMAN HEALTH AND THE ENVIRONMENT. THE REPORT EVALUATED 47 INDUSTRIAL CATEGORIES AND IDENTIFIED 160,000 INDUSTRIAL AND COMMERCIAL FACILITIES THAT DISCHARGE WASTEWATER CONTAINING HAZARDOUS CONSTITUENTS. ONE HUNDRED AND SIXTY-FIVE (165) CHEMICALS FROM THE HAZARDOUS WASTE CHEMICAL CONSTITUENTS LIST WERE SELECTED AND EVALUATED.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW013881

PUBLICATION DATE: MAY 86

TITLE: EPA (ENVIRONMENTAL PROTECTION AGENCY) GUIDE FOR INFECTIOUS WASTE MANAGEMENT.

PERSONAL AUTHOR: SALES, J. W.

DESCRIPTOR: *INFECTIOUS WASTES; *GUIDES; *REGULATIONS; *WASTE MANAGEMENT; *WASTES; *WASTE TREATMENT; *WASTE STORAGE; *WASTE DISPOSAL

DESCRIPTIVE NOTE: 92P. PRICE CODE: PC A05/MF A01. ORDER

NO.: PB86-199130/WEP

ABSTRACT: THE INFECTIOUS WASTE DOCUMENT PROVIDES GUIDANCE ON THE MANAGEMENT OF INFECTIOUS WASTE. THE DOCUMENT PRESENTS THE EPA PERSPECTIVE ON ACCEPTABLE INFECTIOUS WASTE MANAGEMENT PRACTICES. TOPICS INCLUDE THE DEFINITION OF INFECTIOUS WASTE AND RECOMMENDED PRACTICES FOR PACKAGING, TREATMENT, TRANSPORTATION, STORAGE, AND DISPOSAL OF THESE WASTES. THE DOCUMENT ALSO CONTAINS AN UPDATED SUMMARY OF STATE REQUIREMENTS AND REGULATIONS.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW013882

PUBLICATION DATE: MAY 86

TITLE: ORGANIC SOLVENT RECOVERY AND RECLAMATION. JUNE 1970-APRIL 1986 (CITATIONS FROM THE ENGINEERING INDEX DATABASE).

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; BIBLIOGRAPHIES; EQUIPMENT; ORGANIC SOLVENTS; *RESOURCE RECOVERY; SOLVENTS; *SOLVENT RECOVERY; WASTE REDUCTION; OPERATIONS; MAINTENANCE

DESCRIPTIVE NOTE: 111P. PRICE CODE: PC N01/MF N01. ORDER NO.: PB86-866878/WEP

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING EXTRACTION, RECOVERY, AND RECLAMATION OF SOLVENTS AND COMPONENTS OF SOLVENTS WHICH ARE UTILIZED IN VARIOUS MINERAL, MANUFACTURING, PROCESSING, AND REPROCESSING INDUSTRIES. DESIGN, OPERATION, PERFORMANCE, AND MAINTENANCE OF EQUIPMENT UTILIZED FOR THIS PURPOSE ARE INCLUDED. (THIS UPDATED BIBLIOGRAPHY CONTAINS 152 CITATIONS, 37 OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW013883

PUBLICATION DATE: MAY 86

TITLE: FERMENTATION PROCESSES: ALCOHOL FUELS. JULY 1983-MAY 1986 (CITATIONS FROM THE ENERGY DATA BASE).

DESCRIPTOR: *ALCOHOL; *ANNOTATED BIBLIOGRAPHIES; BIBLIOGRAPHIES; *FERMENTATION; *FUELS; *AGRICULTURE

DESCRIPTIVE NOTE: 158P. PRICE CODE: PC N01/MF N01. ORDER NO.: PB86-866784/WEP

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING THE PRINCIPLES AND OPERATIONS OF FERMENTATION TECHNIQUES FOR YIELDING HIGH GRADE ALCOHOL FUELS. PROCESSES, TECHNOLOGY, AND OPERATIONS OF FERMENTATION FACILITIES ARE DISCUSSED. VARIOUS AGRICULTURAL PRODUCTS ARE CONSIDERED AS FEEDSTOCK FOR ALCOHOL PRODUCTION. (THIS UPDATED BIBLIOGRAPHY CONTAINS

295 CITATIONS, 107 OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW013884

PUBLICATION DATE: MAY 86

TITLE: SOLVENT RECOVERY AND RECLAMATION. JUNE 1970-MAY 1986 (CITATIONS FROM THE NTIS DATABASE).

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; BIBLIOGRAPHIES; HEALTH; SAFETY; *RESOURCE RECOVERY; *SOLVENT RECOVERY; OPERATIONS; MAINTENANCE; EQUIPMENT FACILITIES; *WASTE REDUCTION

DESCRIPTIVE NOTE: 148P. PRICE CODE: PC N01/MF N01. ORDER NO.: PB86-866456/WEP

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING EXTRACTION, RECOVERY, AND RECLAMATION OF SOLVENTS, AND COMPONENTS OF SOLVENTS WHICH ARE UTILIZED IN VARIOUS MINERAL, MANUFACTURING, PROCESSING, AND REPROCESSING INDUSTRIES. OCCUPATIONAL SAFETY AND HEALTH CONSIDERATIONS ARE INCLUDED, AS WELL AS FACILITIES PLANNING AND EQUIPMENT SELECTION, OPERATION, AND MAINTENANCE. (THIS UPDATED BIBLIOGRAPHY CONTAINS 298 CITATIONS, 46 OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW013886

PUBLICATION DATE: MAY 86

TITLE: WATER CHEMISTRY: ANALYSIS FOR HEAVY METALS. JUNE 1983-MAY 1986 (CITATIONS FROM THE SELECTED WATER RESOURCES ABSTRACTS DATABASE).

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *ANNOTATED BIBLIOGRAPHIES; BIBLIOGRAPHIES; *CHEMISTRY; *CONTAMINATION; *HEAVY METALS; *ENVIRONMENT; *METALS; *WATER QUALITY

DESCRIPTIVE NOTE: 55P. PRICE CODE: PC N01/MF N01. ORDER NO.: PB86-866381/WEP

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING WATER QUALITY PARAMETERS OF ON-STREAM AND OFF-STREAM SITES WITH SPECIFIC REFERENCE TO HEAVY METAL CONTAMINATION. METHODS FOR INDIVIDUAL AND SIMULTANEOUS MULTIELEMENT DETERMINATIONS ARE DISCUSSED. INTERFERENCE EFFECTS AND METHODS TO MINIMIZE THESE EFFECTS ARE EXPLAINED. THE ECOLOGICAL CONSEQUENCES OF HEAVY METAL CONTAMINATION ARE ALSO PRESENTED. (THIS UPDATED BIBLIOGRAPHY CONTAINS 94 CITATIONS, 21 OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW013887

PUBLICATION DATE: JAN 86

TITLE: DRUM HANDLING PRACTICES AT HAZARDOUS WASTE SITES.

PERSONAL AUTHOR: WAGNER, K.; AND OTHERS

DESCRIPTOR: *COSTS; *DRUMS; *HAZARDOUS MATERIALS; *HAZARDOUS WASTES; *MANUALS; *MATERIALS HANDLING; *RESEARCH REPORTS; *WASTE DISPOSAL; *WASTE STORAGE

DESCRIPTIVE NOTE: 191P. PRICE CODE: PC A09/MF A01. ORDER NO.: PB86-165362/WEP

ABSTRACT: THE PURPOSE OF THE RESEARCH EFFORT WAS TO PROVIDE TECHNICAL GUIDANCE ON PLANNING AND IMPLEMENTING SAFE AND COST-EFFECTIVE RESPONSE ACTIONS APPLICABLE TO HAZARDOUS WASTE SITES CONTAINING DRUMS. THE MANUAL PROVIDES DETAILED TECHNICAL GUIDANCE ON METHODS, PROCEDURES, AND EQUIPMENT SUITABLE FOR REMOVING DRUMMED WASTES. INFORMATION IS INCLUDED ON LOCATING BURIED DRUMS; EXCAVATION AND ONSITE TRANSFER; DRUM STAGING, OPENING, AND SAMPLING; WASTE CONSOLIDATION; AND TEMPORARY STORAGE AND SHIPPING. EACH OF THESE OPERATIONS IS DISCUSSED IN TERMS OF THE EQUIPMENT AND PROCEDURES USED IN CARRYING OUT SPECIFIC ACTIVITIES; HEALTH AND SAFETY PROCEDURES; MEASURES FOR PROTECTING THE ENVIRONMENT AND PUBLIC WELFARE; AND FACTORS AFFECTING COSTS. INFORMATION IS ALSO INCLUDED ON THE APPLICATIONS AND LIMITATIONS OF THE FOLLOWING REMEDIAL MEASURES FOR CONTROLLING OR CONTAINING MIGRATION OF WASTES: SURFACE CAPPING, SURFACE WATER CONTROLS, GROUNDWATER PUMPING, SUBSURFACE DRAINS, SLURRY WALLS, AND IN-SITU TREATMENT TECHNIQUES.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW013888

PUBLICATION DATE: MAY 86

TITLE: MICROBIOLOGY OF GROUNDWATER. 1978-APRIL 1986 (CITATIONS FROM THE LIFE SCIENCES COLLECTION DATABASE).

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; BIBLIOGRAPHIES; *GROUNDWATER; *MICROBIOLOGY; *WATER QUALITY

DESCRIPTIVE NOTE: 38P. PRICE CODE: PC N01/MF N01. ORDER NO.: PB86-866522/WEP

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING THE OCCURRENCE, DISTRIBUTION, ACTIVITY, AND MOVEMENT OF GROUNDWATER MICROORGANISMS. DETECTION OF MICROORGANISMS AND THEIR EFFECTS UPON GROUNDWATER QUALITY ARE ALSO CONSIDERED. (THIS UPDATED BIBLIOGRAPHY CONTAINS 72 CITATIONS, 19 OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW013889

PUBLICATION DATE: MAY 86

TITLE: PULPING WASTEWATER TREATMENT: AERATION PROCESSES AND EQUIPMENT. 1976-APRIL 1986 (CITATIONS FROM THE PAPER AND BOARD, PRINTING, AN

DESCRIPTOR: *AERATION PROCESS; *ANNOTATED BIBLIOGRAPHIES; *COSTS; BIBLIOGRAPHIES; *EQUIPMENT; *INDUSTRIAL WASTES; *OPERATIONS (WASTEWATER); *PAPER INDUSTRY; *PERFORMANCE EVALUATION; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 52P. PRICE CODE: PC N01/MF N01. ORDER NO.: PB86-867132/WEP

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING PLANT OPERATIONS AND METHODS, PILOT PLANT AND LABORATORY TESTS, AND RESULTS OF PULPING MILL WASTEWATER TREATMENT BY AERATION. COMPOSITION OF EFFLUENT COMPONENTS INCLUDING CONDENSATES, BLEACHING EFFLUENTS, AND SPENT LIQUOR ARE DISCUSSED. FOREIGN AND DOMESTIC PLANT EFFICIENCY, PERFORMANCE REPORTS, AND COST DATA ARE CONSIDERED. AERATOR DESIGN, LAGOON TREAMENT SYSTEM UPGRADING CONSIDERATIONS, AND ENVIRONMENTAL ASPECTS ARE INCLUDED. (THIS UPDATED BIBLIOGRAPHY CONTAINS 119 CITATIONS, 21 OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW013890

PUBLICATION DATE: FEB 86

TITLE: UNITED STATES PRACTICE IN SLUDGE TREATMENT AND DISPOSAL.

PERSONAL AUTHOR: FARRELL, J. B.

DESCRIPTOR: *COSTS; *PERFORMANCE EVALUATION; *OPERATIONS (WASTEWATER); *SLUDGE; *SLUDGE TREATMENT; *WASTE DISPOSAL; *WASTE TREATMENT; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 29P. PRICE CODE: PC A03/MF A01. ORDER NO.: PB86-166006/WEP

ABSTRACT: SLUDGE TREATMENT AND DISPOSAL PROBLEMS AND COSTS GROW WITH INCREASED CONCERN ABOUT THE QUALITY OF WASTEWATER TREATMENT. AS STANDARDS FOR EFFLUENT QUALITY IN THE UNITED STATES HAVE BECOME STRICTER, THE PROBLEMS OF SLUDGE TREATMENT AND DISPOSAL HAVE GROWN DISPROPORTIONATELY. TODAY THE COSTS OF SLUDGE TREATMENT AND DISPOSAL AT A MODERN METROPOLITAN SEWAGE TREATMENT PLANT REPRESENT ALMOST HALF THE COST OF WASTEWATER TREATMENT. SLUDGE PROBLEMS, ALTHOUGH OF SERIOUS CONCERN EVERYWHERE, ARE DIFFERENT FOR DIFFERENT LOCATIONS. THE APPROACH TO SLUDGE HANDLING AND THE SOLUTION

TO PROBLEMS DEPENDS ON GEOGRAPHY, CLIMATE, POPULATION, PROPORTION AND NATURE OF INDUSTRIAL WASTES IN THE WASTEWATER, AND LOCAL DETAILS (E.G., PROXIMITY OF HILLS, RIVERS, RESIDENCES, FARMLAND, LANDFILLS, STRIP-MINED LAND). THE REPORT SCANS U.S. PRACTICE AND IDENTIFIES THE PREDOMINANT AND MORE SUCCESSFUL APPROACHES TO SLUDGE TREATMENT AND DISPOSAL THAT HAVE DEVELOPED OVER THE YEARS.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW013891

PUBLICATION DATE: MAY 86

TITLE: PULP MILL EFFLUENTS: ACTIVATED SLUDGE TREATMENT PROCESS. 1976 - PRIL 1986 (CITATIONS FROM THE PAPER AND BOARD, PRINTING, AND PACK

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; BIBLIOGRAPHIES; *COSTS; *ACTIVATED SLUDGE; *EFFLUENTS; *INDUSTRIAL WASTES; *OPERATIONS (WASTEWATER); *PULP INDUSTRY; *WASTEWATER TREATMENT; *PERFORMANCE EVALUATION

DESCRIPTIVE NOTE: 70P. PRICE CODE: PC N01/MF N01. ORDER NO.: PB86-866977/WEP

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING PLANT HISTORIES, LABORATORY ANALYSES, FIELD APPLICATIONS, PERFORMANCE EVALUATIONS, AND COST FACTORS OF PULPING MILL ACTIVATED SLUDGE TREATMENT FACILITIES. MONITORING TECHNIQUES OF THE ACTIVATED SLUDGE EFFLUENT TREATMENT PROCESS, AND OPERATING PROBLEMS AND SOLUTIONS ARE DISCUSSED. COMPUTERIZED SIMULATION OF ACTIVATED SLUDGE PLANTS ARE INCLUDED. (THIS UPDATED BIBLIOGRAPHY CONTAINS 150 CITATIONS, 32 OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW013892

PUBLICATION DATE: MAY 86

TITLE: CADMIUM EXPOSURE: TOXICITY IN HUMANS, 1978-APRIL 1986 (CITATIONS FROM THE LIFE SCIENCES COLLECTION DATABASE).

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; BIBLIOGRAPHIES; *CADMIUM; *HEALTH EFFECTS; *OCCUPATIONAL HEALTH; *TOXIC SUBSTANCES

DESCRIPTIVE NOTE: 113P. PRICE CODE: PC N01/MF N01. ORDER NO.: PB86-866837/WEP

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING THE EFFECTS OF CADMIUM ON HUMANS. BIOLOGICAL MONITORING OF WORKERS EXPOSED TO CADMIUM IS DISCUSSED IN DEPTH. THE EFFECTS OF CADMIUM ON VISUAL-MOTOR PERFORMANCE, COMMUNITY HEALTH, AND CHILD AND INFANT DEVELOPMENT ARE PRESENTED. CADMIUM AS A CONTRIBUTING FACTOR IN RENAL, KIDNEY, LIVER DISEASE, AND INFERTILITY IS DISCUSSED. THE EFFECTS OF SMOKING ON CADMIUM RETENTION ARE MENTIONED. (CONTAINS 280 CITATIONS FULLY INDEXED AND INCLUDING A TITLE LIST.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW013893

PUBLICATION DATE: MAY 86

TITLE: WASTEWATER TREATMENT. JUNE 1970-MAY 1986 (CITATIONS FROM THE ENGINEERING INDEX DATABASE).

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; BIBLIOGRAPHIES; *INDUSTRIAL WASTES; *OPERATIONS (WASTEWATER); *RECYCLING; *WASTEWATER TREATMENT; *EQUIPMENT

DESCRIPTIVE NOTE: 187P. PRICE CODE: PC N01/MF N01. ORDER NO.: PB86-867850/WEP

ABSTRACT: THIS BIBLIOGRAPGY CONTAINS CITATIONS CONCERNING TECHNIQUES AND EQUIPMENT FOR THE TREATMENT OF INDUSTRIAL (EXCEPT MINING) EFFLUENT STREAMS. CONSIDERATION IS GIVEN TO THE REMOVAL, RECLAMATION, AND RECYCLING OF VARIOUS TRACE METALS, HEAVY-METALS, HYDROCARBONS, AND OILY WASTEWATER TO MEET REGULATORY AGENCY DISCHARGE OR INPLANT REUSE STANDARDS. (THIS UPDATED BIBLIOGRAPHY CONTAINS 263 CITATIONS, 82 OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW013894

PUBLICATION DATE: MAY 86

TITLE: ACTIVATED CARBON: UTILIZATION EXCLUDING INDUSTRIAL WASTE TREATMENT. FEBRUARY 1983-APRIL 1986 (CITATIONS FROM THE ENGINEERING INDE

DESCRIPTOR: *ACTIVATED CARBON; *ANNOTATED BIBLIOGRAPHIES; BIBLIOGRAPHIES; *WATER TREATMENT

DESCRIPTIVE NOTE: 262P. PRICE CODE: PC N01/MF N01. ORDER NO.: PB86-867744/WEP

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING THE COMMERCIAL UTILIZATION AND THEORETICAL STUDIES OF ACTIVATED CARBON. TOPICS INCLUDE PERFORMANCE EVALUATIONS IN WATER TREATMENT PROCESSES, PREPARATION AND REGENERATION TECHNIQUES, MATERIALS RECOVERY, AND PORE STRUCTURE STUDIES. ADSORPTION CHARACTERISTICS FOR SPECIFIC MATERIALS ARE DISCUSSED. STUDIES PERTAINING SPECIFICALLY TO INDUSTRIAL WASTE TREATMENT ARE EXCLUDED. (THIS UPDATED BIBLIOGRAPHY CONTAINS 345 CITATIONS, ALL OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW013895
PUBLICATION DATE: JUN 85

TITLE: HAZARDOUS WASTE MANAGEMENT IN INSTITUTIONS AND COLLEGES.

PERSONAL AUTHOR: KROFTA, M.; WANG, L. K.

DESCRIPTOR: *COLLEGES; *HAZARDOUS WASTES; *INSTITUTIONS; *MANAGEMENT; *WASTE MANAGEMENT; *WASTES

DESCRIPTIVE NOTE: 43P. PRICE CODE: PC A03/MF A01. ORDER NO.: PB86-194180/WEP

ABSTRACT: THE TOPICS INCLUDED: (A) CLASSIFICATION AND SEPARATION OF HAZARDOUS WASTES FOR PROPER DISPOSAL OR RECOVERY; (B) DISPOSAL OF COMBUSTIBLE BUT NON-VOLATILE ORGANIC WASTES; (C) DISPOSAL OF COMBUSTIBLE AND VOLATILE ORGANIC WASTES; (D) DISPOSAL OF EXTREMELY HAZARDOUS ORGANIC WASTES (PCB, DIOXIN ETC.) AND RADIO-ACTIVE WASTES; (E) DISPOSAL OF WASTEWATER OR SLUDGE CONTAINING TOXIC HEAVY METALS AND ELEMENTS; (F) DISPOSAL OF PATHOGENIC WASTES CONTAING BACTERIA, VIRUSES, FUNGI, NEMATODES, ETC. (G) (NEUTRALIZATION) OF ACID WASTES ALKALINE WASTES; (H) RECOVERY OF WASTE OIL; (I) DISTILLATION OF WASTE SOLVENT; (J) [illegible] RECOVERY; (K) HANDLING AND RECOVERY OF PRECIOUS METALS FROM COD WASTE; AND (L) SOLIDIFICATION OR CEMENTATION OF HAZARDOUS SLUDGE.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW013896

PUBLICATION DATE: MAY 86

TITLE: ACTIVATED CARBON: UTILIZATION EXCLUDING INDUSTRIAL WASTE TREATMENT. JULY 1980-JANUARY 1983 (CITATIONS FROM THE ENGINEERING INDEX

DESCRIPTOR: *ACTIVATED CARBON; *ANNOTATED BIBLIOGRAPHIES; BIBLIOGRAPHIES; *WATER TREATMENT

DESCRIPTIVE NOTE: 122P. PRICE CODE: PC N01/MF N01. ORDER NO.: PB86-867735/WEP

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING THE COMMERCIAL UTILIZATION AND THEORETICAL STUDIES OF ACTIVATED CARBON. TOPICS INCLUDE PERFORMANCE EVALUATIONS IN WATER TREATMENT PROCESSES, PREPARATION AND REGENERATION TECHNIQIES, MATERIALS RECOVERY, AND PORE STRUCTURE STUDIES. ADSORPTION CHARACTERISTICS FOR SPECIFIC MATERIALS ARE DISCUSSED. STUDIES PERTAINING SPECIFICALLY TO INDUSTRIAL WASTE TREATMENT ARE EXCLUDED. (THIS UPDATED BIBLIOGRAPHY CONTAINS 178 CITATIONS, NONE OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW013897
PUBLICATION DATE: MAY 86

TITLE: WASTEWATER TREATMENT: LAGOONS. 1977-MAY 1986 (CITATIONS FROM THE SELECTED WATER RESOURCES ABSTRACTS DATABASE).

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; BIBLIOGRAPHIES; DESIGN; EQUIPMENT; *FACILITIES; *LAGOONS; *OPERATIONS (WASTEWATER); *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 154P. PRICE CODE: PC N01/MF N01. ORDER NO.: PB86-867884/WEP

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING THE TREATMENT AND STORAGE OF WASTEWATER IN LAGOONS. THE DESIGN, OPERATION, EQUIPMENT, AND PRETREATMENT PROCESSES ARE DISCUSSED. THE TREATMENT OF WASTEWATER FROM BREWERIES, TANNERIES, PAPER MILLS AND OTHER INDUSTRIAL OPERATIONS ARE CONSIDERED. DESCRIPTIONS AND EVALUATIONS OF SPECIFIC FACILITIES ARE PROVIDED. (THIS UPDATED BIBLIOGRAPHY CONTAINS 276 CITATIONS, 73 OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW013898

PUBLICATION DATE: MAY 86
TITLE: HAZARDOUS MATERIALS WASTE DISPOSAL. JUNE 1985-MAY 1986 (CITATIONS FROM THE NTIS DATABASE).

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; BIBLIOGRAPHIES; *HAZARDOUS MATERIALS; *WASTES; *WASTE DISPOSAL

DESCRIPTIVE NOTE: 91P. PRICE CODE: PC N01/MF N01. ORDER NO.: PB86-865854/WEP

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING THE DISPOSAL OF HAZARDOUS INDUSTRIAL AND MUNICIPAL WASTES, CHEMICAL AGENTS, AND A VARIETY OF OTHER DANGEROUS SUBSTANCES. TOPICS INCLUDE RESTORATION OPERATIONS, CONTAMINATION ABATEMENT STUDIES, APPROPRIATE REGULATION AND LEGISLATION, AND REMEDIAL RESPONSE STRATEGIES. CONSIDERABLE ATTENTION IS GIVEN TO WASTE DISPOSAL SITES AT MILITARY INSTALLATIONS AND TO INCINERATION OPERATIONS. CITATIONS PERTAINING SPECIFICALLY TO RADIOACTIVE WASTE DISPOSAL ARE EXCLUDED. (THIS UPDATED BIBLIOGRAPHY CONTAINS 160 CITATIONS, ALL OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW013899

PUBLICATION DATE: MAY 86

TITLE: HAZARDOUS MATERIALS WASTE DISPOSAL. FEBRUARY 1983-MAY 1985 (CITATIONS FROM THE NTIS DATABASE).

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; BIBLIOGRAPHIES; *HAZARDOUS MATERIALS; *WASTES; *WASTE DISPOSAL

DESCRIPTIVE NOTE: 216P. PRICE CODE: PC N01/MF N01. ORDER NO.: PB86-865847/WEP

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING THE DISPOSAL OF HAZARDOUS INDUSTRIAL AND MUNICIPAL WASTES, CHEMICAL AGENTS, AND A VARIETY OF OTHER DANGEROUS SUBSTANCES. TOPICS INCLUDE RESTORATION OPERATIONS, CONTAMINATION ABATEMENT STUDIES, APPROPRIATE REGULATION AND LEGISLATION, AND REMEDIAL RESPONSE STRATEGIES. CONSIDERABLE ATTENTION IS GIVEN TO WASTE DISPOSAL SITES AT MILITARY INSTALLATIONS AND TO INCINERATION OPERATIONS. CITATIONS PERTAINING SPECIFICALLY TO RADIOACTIVE WASTE DISPOSAL ARE EXCLUDED. (THIS UPDATED BIBLIOGRAPHY CONTAINS 226 CITATIONS, NONE OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW013900

PUBLICATION DATE: MAY 86
TITLE: DREDGING: BIOLOGICAL EFFECTS. 1979-MAY 1986 (CITATIONS FROM THE NTIS DATABASE).

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; BIBLIOGRAPHIES; *BIOLOGICAL EFFECTS; *DREDGING; *WASTE DISPOSAL

DESCRIPTIVE NOTE: 123P. PRICE CODE: PC N01/MF N01. ORDER NO.: PB86-865839/WEP

ABSTRACT: THIS UPDATED BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING HABITAL DEGRADATION AND DEVELOPMENT DUE TO DREDGING OPERATIONS AND DISPOSAL. TOPICS INCLUDE ENVIRONMENTAL IMPACT STUDIES, LONG-TERM EFFECTS, AQUATIC ECOSYSTEM RESPONSE STUDIES, AND BIOACCUMULATION OF MATERIALS CONTAINED IN DREDGE SPOILS. OCEAN DISPOSAL OPERATIONS, AND STUDIES PERFORMED IN SPECIFIC AREAS ARE ALSO DISCUSSED. (THIS UPDATED BIBLIOGRAPHY CONTAINS 226 CITATIONS, 61 OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW013901

PUBLICATION DATE: JAN 86

TITLE: COMPUTER ASSISTED PRELIMINARY DESIGN FOR DRINKING WATER TREATMENT PROCESS SYSTEMS.

DESCRIPTOR: *COMPUTER APPLICATIONS; *DESIGN; *DRINKING WATER; *COSTS; *PERFORMANCE EVALUATION; *OPERATIONS (WATER); *WATER TREATMENT

DESCRIPTIVE NOTE: 279P. PRICE CODE: PC A13/MF A01. ORDER NO.: PB86-181112/WEP

ABSTRACT: THE PURPOSE OF THE STUDY WAS TO DEVELOP AN INTERACTIVE COMPUTER PROGRAM TO AID THE DESIGN ENGINEER IN EVALUATING THE PERFORMANCE AND COST FOR ANY PROPOSED DRINKING WATER TREATMENT SYSTEM CONSISTING OF INDIVIDUAL UNIT PROCESSES. THE 25 UNIT PROCESS MODELS CURRENTLY IN THE PROGRAM INCLUDE BOTH CONVENTIONAL AND ADVANCED CONTAMINANT REMOVAL PROCESSES AND VARIOUS SLUDGE HANDLING TECHNIQUES. TECHNOLOGY USED IN SIZING PROCESSES, ESTIMATING PERFORMANCE, AND ESTIMATING TREATMENT IS THE BEST CURRENTLY AVAILABLE FOR PRELIMINARY DESIGN. TO USE THE PROGRAM, THE DESIGNER UNIT MUST PREPARE A FLOW DIAGRAM, INPUT THE RAW QUALITY, AND PROVIDE COST AND DESIGN DECISION PARAMETERS.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW013902

PUBLICATION DATE: AUG 85

TITLE: PROGRAM FOR CALCULATING THE PERFORMANCE AND COST OF DRINKING WATER TREATMENT SYSTEMS (FOR MICROCOMPUTERS).

PERSONAL AUTHOR: EILERS, R. G.; SMITH R.
DESCRIPTOR: *COMPUTER APPLICATIONS; *COMPUTER SOFTWARE; *COSTS; *DESIGN; *DRINKING WATER; *OPERATIONS (WATER); *PERFORMANCE EVALUATION; *WATER TREATMENT

DESCRIPTIVE NOTE: PRICE CODE: CP T99. ORDER NO.: PB86-181120/WEP

ABSTRACT: THE COMPUTER PROGRAM IS WRITTEN IN BASIC FOR USE ON THE IBM PC 128K MICROCOMPUTER. THE PROGRAM SOFTWARE CONSISTS OF TWO STANDARD 5.25 INCH DISKETTES (DOUBLE SIDES, DOUBLE DENSITY, 40 TRACK, SOFT SECTORED). THE MODEL IS INTERACTIVE, REQUIRING THE USER TO SUPPLY INPUT DATA IN RESPONSE TO SCREEN PROMPTS. THERE ARE 25 UNIT PROCESS MODELS IN THE PROGRAM, WHICH ESTIMATE THE EXPECTED PERFORMANCE AND ASSOCIATED COSTS FOR DRINKING WATER TREATMENT SYSTEMS BASED ON RAW WATER QUALITY AND DESIGN DECISION PARAMETERS SUPPLIED BY THE USER. BY VARYING THE INPUT DATA, IT IS POSSIBLE TO PERFORM SENSITIVITY ANALYSIS ON A PROPOSED DESIGN OR COMPARE THE PERFORMANCE AND COST OF ALTERNATIVE DESIGNS.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW013904

PUBLICATION DATE: MAY 86

TITLE: SUMMARY REVIEW OF THE HEALTH EFFECTS ASSOCIATED WITH

PHENOL: HEALTH ISSUE ASSESSMENT.

PERSONAL AUTHOR: BRUCE, R. M.

DESCRIPTOR: *CHEMICALS; *HEALTH EFFECTS; *PHENOL; *RISK ASSESSMENT; *TOXIC SUBSTANCES

DESCRIPTIVE NOTE: 44P. PRICE CODE: PC A03/MF A01. ORDER NO.: PB86-178076/WEPP

ABSTRACT: LARGER PRODUCTION VOLUME AND NATURAL SOURCES OF MONOHY-DROXYBENZENE, GENERICALLY KNOWN AS PHENOL, MAKE EXPOSURE LIKELY. OCCUPATIONAL AND ENVIRONMENTAL EXPOSURE TO PHENOL IS LARGELY RESTRICTED TO SOURCE DOMINATED AREAS, HOWEVER. BASED ON MONITORING DATA, AMBIENT LEVELS OF PHENOL ARE EXTREMELY LOW COMPARED WITH THE PRESENT TLV (THRESHOLD LIMIT VALUE) OF 5 PPM (19 MG/CU.M.). THE STEL (SHORT-TERM EXPOSURE LEVEL) FOR PHENOL IS 10 PPM (38 MG/CU.M.). THE ESTIMATED HALF-LIFE OF PHENOL IS 0.5 DAY, AND LESS THAN 1 MINUTE IN POLLUTED ATMOSPHERES. THE ODOR RECOGNITION THRESHOLD OF PHENOL IS 0.05 PPM (0.19 MG/CU.M.), A LEVEL FAR BELOW THE LEVELS WHERE TOXIC EFFECTS HAVE BEEN REPORTED. PHENOL IS ABSORBED BY ANIMALS AND HUMANS AFTER ORAL, INHALATION, OR DERMAL EXPOSURE. MUSCLE WEAKNESS, CONVULSIONS, AND COMA ARE THE PREDOMINANT SYMPTOMS AFTER EXPOSURE TO LETHAL CONCENTRATIONS. AFTER ABSORPTION, EXOGENOUS PHENOL IS METABOLIZED PRINCIPLLLY BY THE LIVER, AND EXCRETION OCCURS MAINLY VIA URINE.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW013905

PUBLICATION DATE: MAR 86

TITLE: HAZARDOUS WASTE TANKS RISK ANALYSIS.

DESCRIPTOR: *HAZARDOUS WASTES; *HEALTH; *TANKS; *REGULATIONS; *RISK ASSESSMENT; *STORAGE TANKS; *WASTE STORAGE

DESCRIPTIVE NOTE: 269P. PRICE CODE: PC A12/MF A01. ORDER NO.: PB86-192937/WEP

ABSTRACT: THE PURPOSE OF THIS ANALYSIS WAS TO ASSESS THE HUMAN HEALTH RISKS ASSOCIATED WITH: (1) THE POPULATION OF HAZARDOUS WASTE TANKS UNDER THE CURRENT REGULATORY APPROACH; AND (2) THE POPULATION OF HAZARDOUS WASTE TANKS UNDER THE VARIOUS REGULATORY STRATEGIES CONSIDERED BY EPA. THE POPULATION OF TANKS CONSIDERED IN THIS ANALYSIS INCLUDED INTERM STATUS AND PERMITTED HAZARDOUS WASTE TANKS, 90-DAY ACCUMULATION TANKS, AND SMALL QUANTITY GENERATOR INTERIM STATUS, PERMITTED OR 180-DAY ACCUMULATION TANKS. THE REGULATORY ALTERNATIVES EXAMINED IN THIS ANALYSIS INCLUDED NO REVISIONS, FULL SECONDARY CONTAINMENT, PARTIAL SECONDARY CONTAINMENT AND GROUND WATER MONITORING, LEAK TESTING AND GROUND WATER MONITORING, AND CORROSION PROTECTION. ANALYSIS OF THESE REGULATORY ALTERNATIVES ALLOWS FOR DIRECT COMPARISONS BETWEEN RISK PRESENTED BY HW TANKS UNDER ALTERNATIVE REGULATORY SCENARIOS.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW013906

PUBLICATION DATE: MAR 86

TITLE: DESIGN, CONSTRUCTION AND EVALUATION OF CLAY LINERS FOR WASTE MANAGEMENT FACILITIES. DRAFT TECHNICAL RESOURCE DOCUMENT FOR PUBLIC

DESCRIPTOR: *CLAY LINERS; *CONSTRUCTION; *DESIGN; *FACILITIES; *LINERS; *MANAGEMENT; *PERFORMANCE EVALUATION; *WASTE MANAGEMENT; *WASTE DISPOSAL; *WASTE STORAGE

DESCRIPTIVE NOTE: 600P. PRICE CODE: PC A25/MF A01. ORDER NO.: PB86-184496/WEP

ABSTRACT: THE TECHNICAL RESOURCE DOCUMENT IS A COMPILATION OF ALL OF THE AVAILABLE INFORMATION ON THE DESIGN, CONSTRUCTION, AND EVALUATION OF CLAY LINERS FOR WASTE LANDFILLS, SURFACE IMPOUNDMENTS, AND WASTEPILES. SOME INFORMATION IS PRESENTED FOR THE FIRST TIME IN THE DOCUMENT. THE BROAD TOPICS COVERED ARE: CLAYS, WITH EMPHASIS ON THEIR COMPOSITION, SABRIC, AND HYDRAULIC CONDUCTIVITY, GEOTECHNICAL TEST METHODS AND SOIL PROPERTIES INCLUDING INDEX PROPERTIES, SOIL CLASSIFICATION, AND HYDRAULIC CONDUCTIVITY TESTING, AND CLAY CHEMICAL COMPATIBILITY.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW013907

PUBLICATION DATE: MAY 86

TITLE: ASBESTOS: CHRONIC HEALTH EFFECTS, 1978-APRIL 1986 (CITATIONS FROM THE LIFE SCIENCES COLLECTION DATABASE).

DESCRIPTOR: *ASBESTOS; *ANNOTATED BIBLIOGRAPHIES; BIBLIOGRAPHIES; *CASE STUDIES; *HEALTH EFFECTS; *CHEMICAL STUDIES; *RESEARCH REPORTS

DESCRIPTIVE NOTE: 121P. PRICE CODE: PC N01/MF N01. ORDER NO.: PB86-866332/WEP

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING LABORATORY AND CLINICAL STUDIES, AND CASE HISTORIES OF CHRONIC HEALTH EFFECTS RELATED TO ASBESTOS. TOPICS INCLUDE DESCRIPTIONS OF DISEASE PROGRESSION, MORTALITY AND SURVIVAL STUDIES, AND EPIDEMIOLOGICAL AND IMMUNOLOGICAL ASPECTS OF ASBESTOS-RELATED DISORDERS. SYNERGISTIC EFFECTS WITH CIGARETTE SMOKING ARE ALSO EXAMINED. (THIS UPDATED BIBLIOGRAPHY CONTAINS 301 CITATIONS, 41 OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW013908

PUBLICATION DATE: JAN 85

TITLE: FINAL REPORT ON THE FEDERAL/STATE/LOCAL NONPOINT SOURCE TASK FORCE AND RECOMMENDED NATIONAL NONPOINT SOURCE POLICY. APPENDIX B.

DESCRIPTOR: *NONPOINT SOURCE POLLUTION; *POLICIES; *RECOMMENDATIONS; *WATER QUALITY; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 231P. PRICE CODE: PC A11/MF A01. ORDER NO.: PB86-187911/WEP

ABSTRACT: THE APPENDIX PRESENTS THE FULL TEXT OF AGENCY IMPLEMENTATION STRATEGIES DEVELOPED BY EACH FEDERAL AND SOME STATE AND LOCAL AGENCIES PARTICIPATING ON THE FEDERAL/STATE/LOCAL NONPOINT SOURCE TASK FORCE. THE U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA) CONVENED A FEDERAL/STATE/LOCAL NONPOINT SOURCE TASK FORCE IN MARCH 1984 IN RECOGNITION OF THE MANY AGENCIES INVOLVED IN MANAGING NONPOINT SOURCE (NPS) POLLUTION AND THE NEED FOR COORDINATION AMONG THESE AGENCIES. THE TASK FORCE DEVELOPED A RECOMMENDED NATIONAL NONPOINT SOURCE POLICY AND IMPLEMENTATION STRATEGIES TO CARRY OUT THE GOALS OF THE POLICY. THE APPENDIX CONTAINS COPIES OF THESE IMPLEMENTATION STRATEGIES WHICH OUTLINE AGENCY-SPECIFIC ACTIVITIES TO BE UNDERTAKEN IN IMPLEMENTING THE NATIONAL NONPOINT SOURCE POLICY.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW013909

PUBLICATION DATE: JAN 85

TITLE: FINAL REPORT ON THE FEDERAL/STATE/LOCAL NONPOINT SOURCE TASK FORCE AND RECOMMENDED NATIONAL NONPOINT SOURCE POLICY.

DESCRIPTOR: *NONPOINT SOURCE POLLUTION; *POLICIES; *RECOMMENDATIONS; *WATER QUALITY; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 58P. PRICE CODE: PC A04/MF A01. ORDER NO.: PB86-187929/WEP

ABSTRACT: THE REPORT SUMMARIZES THE ACCOMPLISHMENTS OF THE FEDERAL/STATE/LOCAL NONPOINT SOURCE TASK FORCE. IN RECOGNITION OF THE MANY AGENCIES INVOLVED IN MANAGING NONPINT SOURCE (NPS) POLLUTION AND THE NEED FOR COORDINATION AMONG THESE AGENCIES, THE U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA) CONVENED THE TASK FORCE IN MARCH 1984. THE TASK FORCE DEVELOPED A RECOMMENDED NATIONAL NONPOINT SOURCE POLICY AND IMPLEMENTATION STRATEGIES TO CARRY OUT THE GOALS OF THE POLICY. THE REPORT OF THE TASK FORCE PROVIDES A BRIEF OVERVIEW OF THE NPS PROBLEM INCLUDING DEFINING NONPOINT SOURCES AND THE NATURE AND SCOPE OF THE NPS PROBLEM; IT DESCRIBES THE STEPS INVOLVED IN DEVELOPNIG AND IMPLEMENTING THE NATIONAL NONPOINT SOURCE POLICY; AND IT CONTAINS A COPY OF THE RECOMMENDED NATIONAL NONPOINT SOURCE POLICY AND SUMMARIES OF AGENCY IMPLEMENTATION STRATEGIES.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW013910

PUBLICATION DATE: DEC 85

TITLE: PRESSURE DOSED SEPTIC SYSTEMS: ELECTRICAL COMPONENTS AND MAINTENANCE.

PERSONAL AUTHOR: HOUSE, C. H.; AND OTHERS

DESCRIPTOR: *ALTERNATIVE TECHNOLOGY; DESIGN; *ELECTRICAL COMPONENTS; *MAINTENANCE; *OPERATIONS (WASTEWATER); PERFORMANCE EVALUATION; *PRESSURE SYSTEMS; *SEPTIC TANKS; SOIL; *PRESSURE DOSING; *ONSITE WASTEWATER TREATMENT; *WASTEWATER TREATMENTS

DESCRIPTIVE NOTE: 35P. PRICE CODE: PC A03/MF A01. ORDER NO.: PB86-191863/WEP

ABSTRACT: CONVENTIONAL SEPTIC SYSTEMS ARE SIMPLE AND INEXPENSIVE. RESEARCHERS DESIGNED SEVERAL ALTERNATIVE SYSTEMS FOR USE IN SOILS UNSUITABLE FOR CONVENTIONAL SYSTEMS. PRESSURE DOSING, THE MOST WIDELY USED AND SUCCESSFUL ALTERNATIVE TECHNIQUE IN NORTH CAROLINA, IMPROVES SEPTIC SYSTEM PERFORMANCE IN POOR SOILS.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW013911

PUBLICATION DATE: 84

TITLE: COST AND BENEFITS OF DRINKING WATER TREATMENT.

PERSONAL AUTHOR: CLARK, R. M.; AND OTHERS

DESCRIPTOR: *BENEFITS; COSTS; *DRINKING WATER; *COST BENEFIT ANALYSIS; *HEALTH; *WATER TREATMENT

DESCRIPTIVE NOTE: 32P. PRICE CODE: PC A03/MF A01. ORDER NO.: PB86-195153/WEP

ABSTRACT: THE ARTICLE DEVELOPS A FRAMEWORK FOR EVALUATING THE COSTS AND BENEFITS OF ENVIRONMENTAL CONTROL AND PREVENTIVE PUBLIC HEALTH PRACTICES AND ASKS THE POLICY QUESTION: HOW DO THE AUTHORS ACHIEVE THE BEST MIX OF PROTECTION AGAINST INFECTIOUS DISEASE AND TOXIC CHEMICALS IN DRINKING WATER. COSTS AND BENEFITS OF CHLORINATION AND FILTRATION ARE ANALYZED RETROSPECTIVELY, AND THE RESULTS OF THE ANALYSIS ARE EXTENDED TO INCLUDE GRANULAR ACTIVATED CARBON FILTRATION.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW013912
PUBLICATION DATE: JUN 86

TITLE: AERIAL PHOTOGRAPHY: APPLICATIONS IN THE STUDY OF COASTAL EROSION AND POLLUTION. 1974-MAY 1986 (CITATIONS FROM OCEANIC ABSTRACTS).

DESCRIPTOR: *AERIAL PHOTOGRAPHY; *ANNOTATED BIBLIOGRAPHIES; BIBLIOGRAPHIES; *COASTAL EROSION; *EROSION; *POLLUTION; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 127P. PRICE CODE: PC N01/MF N01. ORDER NO.: PB86-867397/WEP

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING THE APPLICATIONS OF AERIAL PHOTOGRAPHY IN THE STUDY OF COASTAL SHORELINE PROBLEMS SUCH AS EROSION AND POLLUTION. TOPICS INCLUDE OCEAN WAVE DIRECTION AND MEASUREMENT, OIL POLLUTION DETECTION AND DIRECTION FORECASTING, SHORELINE CHANGE MEASUREMENTS, COASTAL MAPPING, AND COASTAL TOPOGRAPHIC FEATURES. (THIS UPDATED BIBLIOGRAPHY CONTAINS 350 CITATIONS, 49 OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW013913

PUBLICATION DATE: JUN 86

TITLE: MUNICIPAL SEWAGE SLUDGE AS FERTILIZER. 1970-MAY 1986 (CITATIONS FROM THE NTIS DATABASE).

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; ATTITUDES; BIBLIOGRAPHIES; *FERTILIZER; RECYCLING; *RESOURCE RECOVERY; *PERFORMANCE EVALUATION; *SEWAGE SLUDGE; *SLUDGE; WASTE DISPOSAL

DESCRIPTIVE NOTE: 73P. PRICE CODE: PC N01/MF N01. ORDER NO.: PB86-868866/WEP

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING THE UTILIZATION OF SEWAGE SLUDGE AS FERTLIZER. EMPHASIS IS ON MUNICIPAL SLUDGE. THE EFFECTS OF MUNICIPAL SEWAGE SLUDGE ON VEGETATION SUCH AS MAIZE, BEANS, ROADSIDE VEGETATION, AND HARDWOOD TREES ARE STUDIED. SEWAGE SLUDGE USED AS FERTILIZER TO RECLAIM MINED LAND IS EXPLORED. PUBLIC ATTITUDES ARE ALSO CONSIDERED. (CONTAINS 132 CITATIONS FULLY INDEXED AND INCLUDING A TITLE LIST.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW013914

PUBLICATION DATE: JUN 86

TITLE: SEWAGE TREATMENT COSTS AND ECONOMICS. 1979-JUNE

1986 (CITATIONS FROM THE NTIS DATABASE).
DESCRIPTOR: *ANNOTATED BIBLIOGRAOHIES; BIBLIOGRAPHIES; *COSTS; *CONSTRUCTION; *ECONOMICS; *FACILITIES; *OPERATIONS (WASTEWATER); *SEWAGE; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 161P. PRICE CODE: PC N01/MF N01. ORDER NO.: PB86-868551/WEP

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING THE COSTS AND ECONOMICS INVOLVED IN TECHNOLOGY AND SYSTEMS FOR SEWAGE TREATMENT, SLUDGE DISPOSAL, AND SEWER LINES. MOST OF THE STUDIES COVER THE OVERALL CONSTRUCTION AND OPERATING COSTS OF SEWAGE TREATMENT PLANTS. OTHER STUDIES COVER RATE STRUCTURES, FINANCING, USER CHARGES, AND BENEFITS OF REGIONALIZED PLANTS. (THIS UPDATED BIBLIOGRAPHY CONTAINS 332 CITATIONS, 44 OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW013915

PUBLICATION DATE: JUN 86

TITLE: TOXICITY BIOASSAYS: WATER POLLUTION EFFECTS ON AQUATIC ANIMALS AND PLANTS. 1977-MAY 1986 (CITATIONS FROM THE SELECTED WATER RESOU

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; BIBLIOGRAPHIES; *AQUATIC PLANTS; *BIOASSAYS; *ENVIRONMENTAL EFFECTS; *TOXIC SUBSTANCES; *WATER POLLUTION

DESCRIPTIVE NOTE: 172P. PRICE CODE: PC N01/MF N01. ORDER NO.: PB86-868379/WEP

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING TOXICITY BIOASSAY STUDIES OF WATER POLLUTION EFFECTS ON REPRODUCTION, GROWTH, AND MORTALITY OF AQUATIC ANIMALS AND PLANTS. INDUSTRIAL AND AGRICULTURAL WATER POLLUTANTS SUCH AS METALS, CHEMICALS, PESTICIDES, AND HERBICIDES ARE EVALUATED AND TESTED. STANDARD FISHES AND ALGAL ASSAYS ARE USED TO DETERMINE EFFECTS OF POTENTIAL TOXICANTS. (THIS UPDATED BIBLIOGRAPHY CONTAINS 334 CITATIONS, 20 OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW013916

PUBLICATION DATE: JUN 85

TITLE: SIMPLIFIED LABORATORY PROCEDURES FOR COD (CHEMICAL OXYGEN DEMAND) DETERMINATION USING DICHROMATE REFLUX METHOD.

PERSONAL AUTHOR: WANG, L. K.; AND OTHERS

DESCRIPTOR: *CHEMICAL OXYGEN DEMAND; *COD; *ANALYTICAL

TECHNIQUES; *LABORATORY PROCEDURES; *OPERATIONS (WASTEWATER); *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 10P. PRICE CODE: PC A02/MF A01. ORDER NO.: PB86-193885/WEP

ABSTRACT: UNDER SPONSORSHIP OF THE WATER POLLUTION CONTROL FEDERATION THE LABORATORY PROCEDURES FOR COD DETERMINATION AS OUTLINED IN THE 15TH AND 16TH EDITIONS OF THE APHA/AWWA/WPCF STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER WAS SIMPLIFIED BY THE WPCF SIMPLIFIED LABORATORY PROCEDURES TASK FORCE FOR USE BY THE WASTE TREATMENT PLANT OPERATORS. PROCEDURES FOR COD WASTEWATER TREATMENT AND PRECIOUS METAL PRECIPITATION ARE ALSO PRESENTED.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW013917

PUBLICATION DATE: JAN 84

TITLE: INVESTIGATION OF WATER QUALITY IN DOMESTIC WATER SYSTEMS.

PERSONAL AUTHOR: WANG, L. K.; AND OTHERS

DESCRIPTOR: *DRINKING WATER; *HEALTH EFFECTS; *METALS; *PLUMBING; *RESEARCH REPORTS; *WATER PIPES; *WATER DISTRIBUTION; *WATER QUALITY; *WATER SUPPLY

DESCRIPTIVE NOTE: 81P. PRICE CODE: PC A05/MF A01. ORDER NO.: PB86-193380/WEP

ABSTRACT: THE OBJECTIVE OF THE RESEARCH WAS TO DETERMINE THE METAL CONTENTS (ZINC, COPPER, LEAD, CADMIUM AND IRON) IN DRINKING WATERS TRANSMITTED BY GALVANIZED STEEL PIPES AND COPPER PIPES. WATER SAMPLES WERE TAKEN FROM 17 BUILDINGS IN NEW JERSEY, NEW YORK AND MASSACHUSETTS, WITH PLUMBING SYSTEM'S AGES RANGING FROM BRAND NEW TO OVER 70 YEARS OLD. THE EFFECTS OF WATER QUALITY, TYPE OF PLUMBING SYSTEM, PLUMBING SYSTEM'S AGE AND WATER'S STANDIND TIME ON METAL CONTENTS IN DRINKING WATER ARE DISCUSSED. THE HEALTH EFFECTS OF IMPORTANT WATER QUALITY PARAMETERS ARE PRESENTED.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW013918

PUBLICATION DATE: JUN 86

TITLE: TOXICITY OF ZINC. 1970-JUNE 1985 (CITATIONS FROM THE NTIS DATABASE).

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; BIBLIOGRAPHIES; *HEALTH EFFECTS; *TOXIC SUBSTANCES; *ZINC

DESCRIPTIVE NOTE: 335P. PRICE CODE: PC N01/MF N01. ORDER

NO.: PB86-869310/WEP

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING HEALTH EFFECTS RELATED TO THE UPTAKE AND TOXICITY OF ZINC. THE EMISSIONS OF TRACE ELEMENTS OF ZINC IN THE ATMOSPHERE, THE SOURCES OF THESE EMISSIONS, MONITORING TECHNIQUES, AND ACCUMULATION IN THE ENVIRONMENT ARE CONSIDERED. (THIS UPDATED BIBLIOGRAPHY CONTAINS 355 CITATIONS, NONE OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW013919

PUBLICATION DATE: JUN 86

TITLE: TOXICITY OF ZINC. JULY 1985-JUNE 1986 (CITATIONS FROM THE NTIS DATABASE).

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; BIBLIOGRAPHIES; *ENVIRONMENT; *HEALTH EFFECTS; *MONITORING; *TOXIC SUBSTANCES; *ZINC

DESCRIPTIVE NOTE: 30P. PRICE CODE: PC N01/MF N01. ORDER NO.: PB86-869328/WEP

ABSTRACT: THIS BIBLIOGRAPHY CONTAINS CITATIONS CONCERNING HEALTH EFFECTS RELATED TO THE UPTAKE AND TOXICITY OF ZINC. THE EMISSIONS OF TRACE ELEMENTS OF ZINC IN THE ATMOSPHERE, THE SOURCES OF THESE EMISSIONS, MONITORING TECHNIQUES, AND ACCUMULATION IN THE ENVIRONMENT ARE CONSIDERED. (THIS UPDATED BIBLIOGRAPHY CONTAINS 48 CITATIONS, ALL OF WHICH ARE NEW ENTRIES TO THE PREVIOUS EDITION.)

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW013920

PUBLICATION DATE: MAR 86

TITLE: GREAT LAKES TOXIC HOTSPOTS: A CITIZEN'S ACTION GUIDE.

PERSONAL AUTHOR: FOGARTY, D.

DESCRIPTOR: *ACTION GUIDE; *CITIZEN ACTION; *GREAT LAKES; *LAKES; *PUBLIC PARTICIPATION; *TOXIC SUBSTANCES

DESCRIPTIVE NOTE: 55P. PRICE CODE: PC A04/MF A01. ORDER NO.: PB86-182334/WEP

ABSTRACT: THE MAJOR PRODUCT OF THIS GRANT, A HANDBOOK ENTITLED GREAT LAKES TOXIC HOTSPOTS: A CITIZEN'S ACTION GUIDE WAS PUBLISHED IN NOVEMBER, 1985. SINCE THEN, SEVERAL WORKSHOPS HAVE BEEN HELD TO INTRODUCE THIS HANDBOOK TO CITIZEN'S GROUPS IN GREEN BAY, GARY, HAMMOND, EAST CICAGO, AND GRAND RAPIDS, KALAMAZOO, AND CHICAGO. OTHER WORKSHOPS AARE BEING PLANNED INCLUDING SOME IN COOPERATION WITH THE

LEAGUE OF WOMEN VOTERS.
AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW013921

PUBLICATION DATE: SEP 86

TITLE: TRAINING TRENDS: THE CORPORATE VIEW.

PERSONAL AUTHOR: OLSON, LAWRENCE

DESCRIPTOR: *ATTITUDES; *BUSINESSES; *INDUSTRY; *POLICIES; *SURVEYS; *TRAINING; *TRAINING DIRECTORS

DESCRIPTIVE NOTE: 32-35P.

ABSTRACT: REPORTED ARE THE RESULTS OF A SURVEY OF APPROXIMATELY 30 INDUSTRIAL TRAINING DIRECTORS, RESEARCHERS, AND ADMINISTRATORS IN TRAINING AND INDUSTRIAL RELATIONS REGARDING THE IMPORTANCE OF TRAINING.

AVAILABILITY: TRAINING AND DEVELOPMENT JOURNAL: V40 N9

IRIS ACCESSION NUMBER: EW013922

PUBLICATION DATE: SEP 86

TITLE: ADDING PURPOSE TO PERFORMANCE REVIEWS.

PERSONAL AUTHOR: HARPER, STEPHEN C.

DESCRIPTOR: *EMPLOYEE EVALUATION; *EVALUATION; *MANAGEMENT; *PERFORMANCE EVALUATIONS; *PERFORMASCE REVIEWS; *PERSONNEL; *STAFF DEVELOPMENT

DESCRIPTIVE NOTE: 53-55P.

ABSTRACT: PRESENTED ARE IDEAS FOR IMPROVING PERFORMANCE REVIEWS.

AVAILABILITY: TRAINING AND DEVELOPMENT JOURNAL: V40 N9

IRIS ACCESSION NUMBER: EW013923

PUBLICATION DATE: SEP 86

TITLE: THE PLATINUM RULE.

PERSONAL AUTHOR: NORDSTROM, RODNEY R.; HALL, VANCE

DESCRIPTOR: *BEHAVIORAL APPROACH; *MANAGEMENT; *MOTIVATION; *PERFORMANCE EVALUATION; *PERSONNEL; *STAFF DEVELOPMENT

DESCRIPTIVE NOTE: 57-58P.

ABSTRACT: PRESENTED IS AN OVERVIEW OF THE BEHAVIORAL APPROACH TO MANAGEMENT.
AVAILABILITY: TRAINING AND DEVELOPMENT JOURNAL: V40 N9

IRIS ACCESSION NUMBER: EW013924

PUBLICATION DATE: SEP 86

TITLE: DESIGNING AND LINKING HUMAN RESOURCES PROGRAMS.

PERSONAL AUTHOR: MIRABILE, RICHARD; AND OTHERS

DESCRIPTOR: *COMPETENCIES; *HUMAN RESOURCES DEVELOPMENT; *JOB PERFORMANCE; *MANAGEMENT; *MANAGERS; *PERSONNEL; *STAFF DEVELOPMENT

DESCRIPTIVE NOTE: 60-65P.

ABSTRACT: DESCRIBED IS AN APPROACH TO IDENTFYE CAREER PATHS AND TO DEVELOP MANAGERS. THE APPROACH USED EMPHASIZED IDENTIFYING AND DESCRIBING CRITICAL MANAGERIAL COMPETENCIES.

AVAILABILITY: TRAINING AND DEVELOPMENT JOURNAL: V40 N9

IRIS ACCESSION NUMBER: EW013925

PUBLICATION DATE: SEP 86

TITLE: A DOLLARS AND SENSE APPROACH TO THE INTERACTIVE VIDEODISC.

PERSONAL AUTHOR: STARR, MICHAEL

DESCRIPTOR: *AUDIOVISUAL AIDS; *COSTS; EQUIPMENT; *INSTRUCTIONAL MATERIALS; *INTERACTIVE VIDEODISCS; *MATERIAL PRODUCTION; TECHNOLOGY; *VIDEODISCS

DESCRIPTIVE NOTE: 27-33P.

ABSTRACT: DESCRIBED ARE WAYS AND COSTS OF PRODUCING THREE LEVELS OF INTERACTIVE VIDEODISCS.

AVAILABILITY: E-I TV: V18 N9

IRIS ACCESSION NUMBER: EW013926

PUBLICATION DATE: SEP 86

TITLE: COMPUTER TECHNOLOGY MONITORS WASTEWATER BIOLOGICAL PROCESSES.

DESCRIPTOR: *BIOLOGICAL PROCESSES; *COMPUTER CONTROLS; *CANADA; *COSTS; *OPERATIONS (WASTEWATER); *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 13P.

ABSTRACT: DESCRIBED IS A COMPUTER TECHNOLOGY THAT MONITORS

WASTEWATER BIOLOGICAL PROCESSES FOR A CANADIAN COMMUNITY. THE SYSTEM PROVIDES ANALYTICAL DATA, ASSISTS IN CONTROLLING PROCESSES, AND SAVES COSTS.

AVAILABILITY: WATER ENGINEERING AND MANAGEMENT; V133 N9

IRIS ACCESSION NUMBER: EW013927

PUBLICATION DATE: SEP 86

TITLE: MODIFIED DITCH PRODUCES UNDER SPEC EFFLUENTS WITH EASE.

DESCRIPTOR: *FACILITIES; *OPERATIONS (WASTEWATER); *OXIDATION DITCHES; UTAH; *WASTEWATER TREATMENT; *NITROGEN REMOVAL

DESCRIPTIVE NOTE: 26-28P.

ABSTRACT: THE OLD OXIDATION DITCH RE-STYLED FOR MODERN WASTEWATER TREATMENT HAS PROVED ITSELF IN A LARGE UTAH COMPLEX.

AVAILABILITY: WATER ENGINEERING AND MANAGEMENT; V133 N9

IRIS ACCESSION NUMBER: EW013928

PUBLICATION DATE: SEP 86

TITLE: WATER TREATMENT PLANT OPERATORS NEED TRAINING TOO.

PERSONAL AUTHOR: HORTON, DEBORAH

DESCRIPTOR: *OPERATIONS (WATER); *TRAINING; *TRAINING NEEDS; *WATER TREATMENT

DESCRIPTIVE NOTE: 31-33P.

ABSTRACT: THE AUTHOR STRESSES THE NEED FOR OPERATOR TRAINING FOR WATER TREATMENT PLANT PERSONNEL. SOME SOURCES OF ASSISTANCE AND CHARACTERISTICS OF GOOD TRAINING PROGRAMS ARE LISTED.

AVAILABILITY: WATER ENGINEERING AND MANAGEMENT; V133 N9

IRIS ACCESSION NUMBER: EW013929

PUBLICATION DATE: SEP 86

TITLE: UPDATING OF SOLIDS HANDLING EQUIPMENT BRINGS BIG COST SAVINGS.

PERSONAL AUTHOR: LINNE MANN, STEPHEN M.; AND OTHERS

DESCRIPTOR: *BELT FILTER PRESSES; *COSTS; *EQUIPMENT; *FACILITIES; *OPERATIONS (WASTEWATER); *SLUDGE; *SOLIDS HANDLING; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 36-38P.

ABSTRACT: UPGRADING OF SOLIDS HANDLING EQUIPMENT PRODUCED SUBSTANTIAL SAVINGS FOR A WASTEWATER TREATMENT PLANT.

AVAILABILITY: WATER ENGINEERING AND MANAGEMENT; V133 N9

IRIS ACCESSION NUMBER: EW013930

PUBLICATION DATE: OCT 86

TITLE: "NATURAL" PROCESSES AND ON-SITE TREATMENT COMBINED IN INNOVATIVE WASTEWATER PLAN.

PERSONAL AUTHOR: LOMBARDO, PIO; NEEL, THOMAS

DESCRIPTOR: *COSTS; *DESIGN; *FACILITIES; *MARYLAND; *OPERATIONS (WASTEWATER); *PUBLIC HEALTH; *ONSITE WASTEWATER TREATMENT; *RURAL AREAS; *USER CHARGES; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 50-52P.

ABSTRACT: THREE APPROACHES APE USED TO PROVIDE EFFECTIVE YET INEXPENSIVE WASTEWATER MANAGEMENT FOR A LOW-LYING PENINSULA IN MARYLAND. INVOLVED ARE ON-SITE SEPTIC SYSTEMS, CLUSTER LEACHING FIELDS, AND A COMMUNAL TREATMENT SYSTEM.

AVAILABILITY: PUBLIC WORKS; V117 N10

IRIS ACCESSION NUMBER: EW013931

PUBLICATION DATE: OCT 86

TITLE: THE STORY BEHIND PHILADELPHIA'S COMMITMENT TO COMPOSTING.

PERSONAL AUTHOR: SENSKE, FRANK, S.E.

DESCRIPTOR: *COMPOSTING; *RECYCLING; *RESOURCE RECOVERY; *PENNSYLVANIA; *SLUDGE; *WASTE DISPOSAL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 55-57P.

ABSTRACT: REVIEWED IS THE GROWTH OF PHILADELPHIA'S SLUDGE COMPOSTING PROGRAM AND USE OF NEW EQUIPMENT IS REVIEWED.

AVAILABILITY: PUBLIC WORKS; V117 N10

IRIS ACCESSION NUMBER: EW013932

PUBLICATION DATE: OCT 86

TITLE: TREATMENT PLANT PERFORMANCE EXCEEDS EXPECTATIONS.

PERSONAL AUTHOR: WESHER, G. M.; AND OTHERS

DESCRIPTOR: *DESIGN; *FACILITIES; *PERFORMANCE EVALUATION; *OPERATIONS (WASTEWATER); *TRICKLING FILTERS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 60-63P.

ABSTRACT: DESCRIBED IS A LAS VEGAS TRICKLING FILTER PLANT THAT PRODUCES IMPRESSIVE RESULTS.

AVAILABILITY: PUBLIC WORKS; V117 N10

IRIS ACCESSION NUMBER: EW013933

PUBLICATION DATE: OCT 86

TITLE: COST EFFECTIVENESS AND SEWER REHABILITATION.

PERSONAL AUTHOR: CARTER, WILLIAM C.; AND OTHERS

DESCRIPTOR: *COSTS; *COST ESTIMATES; *INFILTRATION; *INFLOW; *SEWAGE REHABILITATION; *SEWERS; *WASTEWATER COLLECTION

DESCRIPTIVE NOTE: 64-67P.

ABSTRACT: THIS PROJECT EXAMINED MANY APPROACHES TO DETERMINE THE MOST COST EFFECTIVE MEANS OF IMPLEMENTING I/I REMOVAL TO OPTIMUM LEVELS.

AVAILABILITY: PUBLIC WORKS; V117 N10

IRIS ACCESSION NUMBER: EW013934

PUBLICATION DATE: OCT 86

TITLE: GETTING YOUR MONEY'S WORTH FROM COMPUTER BASED CONTROL SYSTEMS/PART 2.

PERSONAL AUTHOR: SHIRREFF, WILLIAM J., P.E.

DESCRIPTOR: *AUTOMATIC CONTROL SYSTEMS; *COMPUTER APPLICATIONS; *COMPUTER BASED CONTROL SYSTEMS; *SPECIFICATIONS

DESCRIPTIVE NOTE: 68-69, 113-114P.

ABSTRACT: THIS IS PART 2 OF A SERIES ON COMPUTER BASED CONTROL SYSTEMS. THIS ARTICLE DETAILS CONTROL SYSTEM OBJECTIVES AND HIGHLIGHT APPROACHES TO WRITING SPECIFICATIONS.

AVAILABILITY: PUBLIC WORKS; V117 N10

IRIS ACCESSION NUMBER: EW013935

PUBLICATION DATE: OCT 86

TITLE: DESIGN SCALE-UP SUITABILITY FOR AIR-STRIPPING COLUMNS.

PERSONAL AUTHOR: WALLMAN, HAROLD, P.E.; CUMMINS, MICHAEL D., P.E.

DESCRIPTOR: *AIR-STRIPPING; *CONTAMINATION; *COSTS; *DRINKING WATER; *OPERATIONS (WATER); *WATER TREATMENT; *GROUNDWATER

DESCRIPTIVE NOTE: 74-78P.

ABSTRACT: THIS INVESTIGATION EXAMINED THE SCALE-UP OF A PILOT AIR-STRIPPING COLUMN TO A FULL-SCALE VOC REMOVAL SYSTEM.

AVAILABILITY: PUBLIC WORKS; V117 N10

IRIS ACCESSION NUMBER: EW013936

PUBLICATION DATE: FEB 86

TITLE: APPLICATION OF RECOMBINANT DNA TECHNOLOGY OF METHANE BIOSYNTHESIS.

PERSONAL AUTHOR: REEVE, JOHN N.; CRAM, DAVID S.

DESCRIPTOR: *BIOGAS; *BIOLOGY; *BIOTECHNOLOGY; *METHANE; *METHANOGENS; *RECOMBINANT DNA; *RESEARCH REPORTS; *TECHNOLOGY; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 38P. PRICE: $3.28
ABSTRACT: A PROJECT WAS CONDUCTED TO CLONE THE GENES ENCODING THE POLYPEPTIDE SUBUNITS OF THE ENZYME METHYL-COENZYME M METHYL-REDUCTASE (METHYL COM-REDUCTASE). THE EXPERIMENTAL APPROACH WAS TO PURIFY THE ENZYME, PRODUCE ANTIBODIES AGAINST THE ENZYME, AND USE THESE ANTIBODIES TO SCREEN ESCHERICHIA COLI COLONIES FOR CLONES THAT SYNTHESIZED ANTIGENS WITH WHICH THE ANTI-METHYL COM-REDUCTASE ANTIBODIES REACTED. THE E. COLI STRAINS CONTAINED PLASMIDS OR WERE PREINFECTED WITH BACTERIOPHAGES THAT HAD BEEN CONSTRUCTED BY IN VITRO DNA RECOMBINANT TECHNIQUES TO CONTAIN FRAGMENTS OF EITHER M. THERMOAUTOTROPHICUM OR M. VANNIELII GENOMIC DNA'S. THE EXPECTATION WAS THAT THE E. COLI CLONES THAT REACTED WITH THE ANTI-METHYL COM-REDUCTASE ANTIBODIES WOULD CONTAIN CLONED METHANOGEN DNA SEQUENCES ENCODING PART OR ALL OF THE METHYL COM-REDUCTASE POLYPEPTIDES. HOWEVER, THIS TECHNIQUE FREQUENTLY GENERATED FALSE POSITIVE SIGNALS. MOST OF THE STUDY PERIOD WAS USED IN IMPROVING THE TECHNOLOGY TO DECREASE THE NUMBER OF ANTIFACTUALLY POSITIVE SIGNALS AND IN SCREENING AND ANALYZING POSITIVE SIGNALS AND IN SCREENING AND ANALYZING POSITIVE CLONES THAT ULTIMATELY WERE FOUND TO CONTAIN NONE OF THE DESIRED GENES. ALTHOUGH THE SPECIFIC GOAL OF CLONING THE GENES ENCODING METHYL COMREDUCTASE HAS YET TO BE REACHED, THE EXPERIMENTS COMPLETED HAVE PRODUCED VALUABLE INFORMATION DESCRIBING THE STRUCTURES AND ORGANIZATION OF METHANOGEN GENES AND THE STRUCTURE OF METHANOGEN MESSENGER RNA'S.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 1200 CHAMBERS ROAD, ROOM 310, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW#13937
PUBLICATION DATE: FEB 86

TITLE: DEWATERING WASTEWATER TREATMENT SLUDGE BY CLATHRATE FREEZING: A BENCH-SCALE FEASIBILITY STUDY.

PERSONAL AUTHOR: MOLAYEM, BENJAMIN; BARDAKCI, TEVFIK

DESCRIPTOR: *CLATHRATE FREEZING; *DEWATERING; *FEASIBILITY STUDIES; *FREEZING; *OPERATIONS (WASTEWATER); *RESEARCH REPORTS; *SLUDGE; *SLUDGE DEWATERING; *TECHNOLOGY; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 34P. PRICE: $3.#4

ABSTRACT: LABORATORY STUDIES WERE PERFORMED TO PROVE THE CONCEPT AND FEASIBILITY FOR A NOVEL TECHNOLOGY TO DEWATER WASTEWATER TREATMENT SLUDGES. THE TECHNOLOGY INVOLVES THE FORMATION OF SOLID HYDRATE CRYSTALS OF WATER AND SPECIFIC CLATHRATE-FORMING AGENTS FOLLOWED BY SEPARATION OF THE HYDRATE CRYSTAL SOLIDS FROM THE SLUDGE SOLIDS, THEREBY PRODUCING A SLUDGE SOLIDS MASS DEPLETED OF WATER CONTENT. THE OBJECTIVES OF THE PROGRAM ALSO INCLUDE OBTAINING PRELIMINARY DATA FOR DEWATERING WASTEWATER SLUDGES FROM THE MILLCREEK WASTEWATER TREATMENT PLANT IN CINCINNATI, OHIO. LABORATORY TESTS WERE PERFORMED USING FREON-11 AS CLATHRATE-FORMING AGENT, IN A BENCH-SCALE BATCH MODE. THE OBJECTIVES OF THE PROGRAM WERE ACHIEVED, THEREBY DEMONSTRATING THE TECHNICAL FEASIBILITY OF THE CONCEPT.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 12## CHAMBERS ROAD, ROOM 31#, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW#13938

PUBLICATION DATE: SEP 86

TITLE: INNOVATIVE AND ALTERNATIVE TECHNOLOGY PROJECTS. 1986 PROGRESS REPORT.

DESCRIPTOR: *ALTERNATIVE TECHNOLOGY; *INNOVATIVE TECHNOLOGY; *CASE STUDIES; *FACILITIES; *OPERATIONS (WASTEWATER); *PERFORMANCE EVALUATION; *PROJECT DESCRIPTIONS; *PROGRESS REPORTS; *TECHNOLOGY; *USEPA; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 56P. PRICE: $2.5#

ABSTRACT: THIS PUBLICATION PRESENTS A PROGRESS REPORT ON INNOVATIVE AND ALTERNATIVE (I/A) TECHNOLOGY WASTEWATER PROJECTS. INCLUDED IS AN OVERVIEW AND TABLES LISTING VARIOUS PROJECTS FUNDED THROUGH THE I/A PROGRAM. THIS IS A CONTINUATION OF THE SERIES; COPIES FOR PREVIOUS YEARS ARE AVAILABLE. INFORMATION IS GIVEN ON THE SITE OF THE INNOVATION, PROCESS OR INNOVATION BEING USED, DESIGN FLOW, AND THE CONSULTING FIRM.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 12## CHAMBERS ROAD, ROOM 31#, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW#13939
PUBLICATION DATE: SEP 85

TITLE: MULTIPLE-HEARTH AND FLUID BED SLUDGE INCINERATORS: DESIGN AND OPERATIONAL CONSIDERATIONS.

DESCRIPTOR: *DESIGN; *INCINERATION; *INCINERATORS; *EQUIPMENT; *OPERATIONS (WASTEWATER); *SLUDGE INCINERATION; *WASTE DISPOSAL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 68P. PRICE: $2.5#

ABSTRACT: THE DOCUMENT PROVIDES A BASIC UNDERSTANDING OF SLUDGE INCINERATION AS WELL AS CONCISE INFORMATION ON DESIGN CONSIDERATIONS, OPERATIONAL CHARACTERISTICS AND PROCESS AND EQUIPMENT PROBLEMS AND POSSIBLE SOLUTIONS.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 12## CHAMBERS ROAD, ROOM 31#, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW#13940

PUBLICATION DATE: SEP 86

TITLE: REGULATION AND POLICY MATRICES. A GUIDE TO THE RULES GOVERNING GRANTS AWARDED UNDER THE CONSTRUCTION GRANTS PROGRAM. UPDATE-1986.

DESCRIPTOR: *CONSTRUCTION; *CONSTRUCTION GRANTS; FACILITIES; *POLICIES; *REGULATIONS; *USEPA; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 42P. PRICE: $3.52

ABSTRACT: THIS IS THE 1986 UPDATE MATERIAL FOR THE CONSTRUCTION GRANTS PROGRAM "REGULATIONS AND POLICY MATRICES". THE UPDATE OF THE REGULATION SECTION OF THE MATRICES CONTAINS A LISTING AND BRIEF DESCRIPTION OF THOSE FEDERAL REGISTER NOTICES OF CONSTRUCTION GRANT REGULATIONS DEALING WITH ALLOWABLE AND UNALLOWABLE COSTS AND OF SECONDARY AND PRETREATMENT REGULATIONS WHICH WERE PUBLISHED BETWEEN JULY 1, 1985 AND JUNE 3#, 1986. FOR GRANTS AWARDED DURING THAT PERIOD, APPLICABLE REGULATIONS WOULD BE THOSE FOUND IN THE 1985 EDITION OF TITLE 4# OF THE CFR PLUS THE REGULATIONS IDENTIFIED IN THE REGULATION MATRIX OF THE MATRICES PROMULGATED BETWEEN JULY 1, 1985 AND THE DATE OF THE GRANT AWARD. IN ADDITION, THE HANDBOOK OF PROCEDURES MATRIX AND THE SUBJECT INDEX HAVE BEEN UPDATED TO REFLECT THE CHANGES PUBLISHED IN TRANSMITTAL MEMORANDUM 86-1. TO ACCOMMODATE THE IMPLEMENTATION OF THE DISPUTES DECISION PROCEDURE, AS SET FORTH IN SUBPART L OF THE PART 3# REGULATIONS ISSUED SEPTEMBER 3#, 1983, AND THE ELIMINATION OF THE APPEALS PROCESS ALONG WITH THE BOARD OF ASSISTANCE APPEALS, A "DISPUTES CASE" SECTION IS BEING ADDED TO THE MATRICES. IT CONTAINS A CHRONOLOGICAL LISTING OF THOSE DISPUTING GRANTEES APPLICANTS WHOSE CASES WERE DECIDED BY REGIONAL ADMINISTRATORS ALONG WITH A "SUBJECT INDEX" INDICATING THE ISSUES DISPUTED AND THE GRANTEES OR APPLICANTS INVOLVED.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES

CENTER, 1200 CHAMBERS ROAD, ROOM 310, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW013941

PUBLICATION DATE: OCT 86

TITLE: WESTERN WATER LAW IN TRANSITION.

PERSONAL AUTHOR: WILKINSON, CHARLES F.

DESCRIPTOR: *LEGISLATION; *POLICIES; *TRENDS; *WATER LAW; *WATER USE; *WATER RESOURCES; *WATER SUPPLY

DESCRIPTIVE NOTE: 34-47P.

ABSTRACT: WESTERN WATER LAW IS IN TRANSITION. SOME ELEMENTS OF THE PRIOR APPROPRIATION DOCTRINE APPEAR TO BE OUT OF PHASE WITH CONTEMPORARY REALITIES. THIS ARTICLE EXAMINES A CHANGING AMERICAN WEST, WHICH DEMANDS EFFICIENCY IN WATER USE AND GIVES INCREASING WEIGHT TO THE RECREATIONAL, WILDLIFE, AND AESTHETIC VALUES OF WATER.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL: V78 N10

IRIS ACCESSION NUMBER: EW013942

PUBLICATION DATE: OCT 86

TITLE: INDIAN RESERVATION WATER RIGHTS.

PERSONAL AUTHOR: COLLINS, RICHARD B.

DESCRIPTOR: *LEGISLATION; *INDIANS; *INDIAN RESERVATIONS; *WATER RESOURCES; *WATER SUPPLY; *WATER RIGHTS

DESCRIPTIVE NOTE: 48-54P.

ABSTRACT: WATER RIGHTS HELD BY INDIANS, WHETHER USED ON OR OFF THE RESERVATION, ARE SHROUDED IN UNRESOLVED ISSUES. SEVERAL ISSUES ARE CONSIDERED.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL: V78 N10

IRIS ACCESSION NUMBER: EW013943

PUBLICATION DATE: OCT 86

TITLE: WATER MANAGEMENT IN INDIAN COUNTRY.

PERSONAL AUTHOR: SHUPE, STEVEN J.

DESCRIPTOR: *INDIANS; *LEGISLATION; *MANAGEMENT; *REGULATIONS; *WATER RESOURCES; *WATER RIGHTS; *WATER SUPPLY

DESCRIPTIVE NOTE: 55-62P.

ABSTRACT: EFFECTIVE WATER MANAGEMENT BY INDIAN TRIBES IS NEEDED TO SECURE RIGHTS THAT EXIST ONLY ON PAPER. THIS ARTICLE DISCUSSES ONGOING TRIBAL MANAGEMENT EFFORTS AND HOW SUCH EFFORTS INTERFACE WITH STATE WATER ADMINISTRATION IN THE WEST.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL: V78 N10

IRIS ACCESSION NUMBER: EW013944

PUBLICATION DATE: OCT 86

TITLE: REALLOCATING WATER IN THE WEST.

PERSONAL AUTHOR: WEATHERFORD, GARY D.; SHUPE, STEVEN J.

DESCRIPTOR: ARIZONA; CALIFORNIA; *LEGISLATION; NEW MEXICO; NEGOTIATIONS; UTAH; *WATER ALLOCATION; *WATER LAW; *WATER USE; *WATER RESOURCES; *WATER SUPPLY

DESCRIPTIVE NOTE: 63-71P.

ABSTRACT: WESTERN WATER LAW IS GRADUALLY ADAPTING TO ACCOMODATE PUBLIC CONCERNS ABOUT EFFICIENT USE OF WATER, FAIRNESS, AND ENVIRONMENTAL CONSIDERATIONS. THIS ARTICLE CONSIDERS SOME OF THE ISSUES, LEGAL ASPECTS, AND REALLOCATION ACTIVITIES.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL: V78 N10

IRIS ACCESSION NUMBER: EW013945

PUBLICATION DATE: OCT 86

TITLE: PUBLIC RIGHTS AT THE HEADWATERS.

PERSONAL AUTHOR: THORSON, JOHN E.

DESCRIPTOR: *AESTHETICS; *ENVIRONMENT; *LEGISLATION; MONTANA; *NATURAL RESOURCES; *MULTIPLE USE; *POLICIES; *RECREATION; *PUBLIC RIGHTS; *WATER RESOURCES

DESCRIPTIVE NOTE: 72-78P.

ABSTRACT: MONTANA HAS ATTEMPTED TO RECONCILE THE AESTHETIC, RECREATIONAL, AND ENVIRONMENTAL VALUE OF WATER WITH THE PRIOR APPROPRIATION DOCTRINE. DESCRIBED ARE SOME PROBLEMS OF SEVERAL WESTERN STATES RELATED TO MULTIPLE USE OF WATER WITH SPECIAL EMPHASIS ON MONTANA.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL: V78 N10

IRIS ACCESSION NUMBER: EW#13946
PUBLICATION DATE: OCT 86

TITLE: ARIZONA'S GROUNDWATER CODE: STRENGTH IN COMPROMISE.

PERSONAL AUTHOR: FERRIS, KATHLEEN

DESCRIPTOR: *ARIZONA; *CONSERVATION; *GROUNDWATER; *LEGISLATION; *NATURAL RESOURCES; *POLICIES; *WATER CONSERVATION; *WATER REUSE; *WATER RESOURCES; *WATER SUPPLY; *WATER QUALITY

DESCRIPTIVE NOTE: 79-84P.

ABSTRACT: IN 1980, THE ARIZONA LEGISLATURE TOOK UNPRECEDENTED STEPS TO MEET THE THREAT OF IRREVERSIBLE GROUNDWATER DEPLETION. NEED FOR THE LAW, PROVISIONS OF THE LAW, AND PROBABLE IMPACT OF THE LAW ARE PRESENTED.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V78 N10

IRIS ACCESSION NUMBER: EW#13947

PUBLICATION DATE: OCT 86

TITLE: GROUNDWATER RECHARGE: ENHANCING ARIZONA'S AQUIFERS.

PERSONAL AUTHOR: AMBROSE, WALLACE A.; LYNN, PAT

DESCRIPTOR: *ARIZONA; CONSERVATION; FILTRATION; *GROUNDWATER; *LEGISLATION; NATURAL RESOURCES; *RECYCLING; *WATER CONSERVATION; *WATER REUSE; *WATER RESOURCES; *WATER SUPPLY; *WATER QUALITY

DESCRIPTIVE NOTE: 85-90P.

ABSTRACT: THIS YEAR, THE ARIZONA LEGISLATURE PASSED A TWO-TIERED LAW TO REPLENISH DWINDLING GROUNDWATER SUPPLIES AND PROVIDE FOR UNDERGROUND STORAGE OF WATER. DESCRIBED ARE ASPECTS OF THE LEGISLATION AND SOME GROUNDWATER RECHARGE PROGRAMS.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V78 N10

IRIS ACCESSION NUMBER: EW#13948

PUBLICATION DATE: SEP 86

TITLE: COMPUTERIZED DATA ENHANCE HAZARDOUS MATERIALS INCIDENT RESPONSE.

PERSONAL AUTHOR: COHEN, RONALD, PH.D., R.S.

DESCRIPTOR: *COMPUTER APPLICATIONS; *EMERGENCY RESPONSE; *EMERGENCY RESPONSE SYSTEMS; *HAZARDOUS MATERIALS; *NEW JERSEY

DESCRIPTIVE NOTE: 69-71P.
ABSTRACT: DESCRIBED IS A COMPUTERIZED HAZARDOUS MATERIAL RESPONSE PROGRAM IN NEW JERSEY. THE SYSTEM WAS USED THREE TIMES IN 1985.

AVAILABILITY: JOURNAL OF ENVIRONMENTAL HEALTH; V49 N2

IRIS ACCESSION NUMBER: EW#13949

PUBLICATION DATE: SEP 86

TITLE: EFFECT OF PUBLIC SEWERS ON WATERSHED CONTAMINATION.

PERSONAL AUTHOR: ANDERMAN, WILLIAM H.; AND OTHERS

DESCRIPTOR: *CONTAMINATION; *DRINKING WATER; *PUBLIC HEALTH; *SEWERS; *WATER QUALITY; *WASTEWATER COLLECTION; *WATERSHEDS

DESCRIPTIVE NOTE: 81-84P.

ABSTRACT: THE EFFECT OF THE ADDITION OF SEWERS TO WATERSHED CONTAMINATION IN AN OREGON COMMUNITY WAS STUDIED. BACTERIOLOGICAL RESULTS SHOWED SUBSTANTIAL DECREASE IN SEWERED AREAS AND LITTLE DECREASE IN NON-SEWERED AREAS.

AVAILABILITY: JOURNAL OF ENVIRONMENTAL HEALTH; V49 N2

IRIS ACCESSION NUMBER: EW#13950

PUBLICATION DATE: OCT 86

TITLE: AMERICA'S BEST.

DESCRIPTOR: *AWARDS; *FACILITIES; *MAINTENANCE; *OPERATIONS (WASTEWATER); *PERFORMANCE EVALUATION; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 11-23P.

ABSTRACT: DESCRIBED ARE SIX WASTEWATER TREATMENT PLANTS THAT WON THE FIRST NATIONAL OPERATIONS AND MAINTENANCE EXCELLENCE AWARDS. THREE ADVANCED WASTEWATER TREATMENT PLANTS AND THREE SECONDARY WASTEWATER TREATMENT PLANTS ARE INCLUDED.

AVAILABILITY: OPERATIONS FORUM; V3 N10

IRIS ACCESSION NUMBER: EW#13951

PUBLICATION DATE: OCT 86

TITLE: CENTRIFUGE TRADE-OFFS. OPERATION TIPS FOR SLUDGE HANDLING.

PERSONAL AUTHOR: SULLIVAN, DANIEL E., PH.D.; AND OTHERS

DESCRIPTOR: *CENTRIFUGES; *DEWATERING; *EQUIPMENT;

*OPERATIONS (WASTEWATER); *SLUDGE; *WASTEWATER TREATMENT
DESCRIPTIVE NOTE: 24-27P.

ABSTRACT: THIS ARTICLE PRESENTS IDEAS FOR EFFECTIVE OPERATION OF A SLUDGE CENTRIFUGE FOR DEWATERING APPLICATIONS.

AVAILABILITY: OPERATIONS FORUM; V3 N10

IRIS ACCESSION NUMBER: EW013952

PUBLICATION DATE: OCT 86

TITLE: REDISCOVERING GRAVITY. NEW BELT THICKNERES CUT THE COST OF SLUDGE.

PERSONAL AUTHOR: LECEY, BOB

DESCRIPTOR: *DEWATERING; *EQUIPMENT; *GRAVITY BELT THICKENERS; *OPERATIONS (WASTEWATER); *PERFORMANCE EVALUATION; *SLUDGE; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 28-31P.

ABSTRACT: DESCRIBED IS THE USE OF A GRAVITY BELT THICKENER FOR THICKENING WASTEWATER SLUDGE.

AVAILABILITY: OPERATIONS FORUM; V3 N10

IRIS ACCESSION NUMBER: EW013953

PUBLICATION DATE: OCT 86

TITLE: PROCESS CONTROL FUNDAMENTALS - PART V. MEASURING AERATION BASIN DISSOLVED OXYGEN.

PERSONAL AUTHOR: HOBSON, TIM

DESCRIPTOR: *ACTIVATED SLUDGE; *DISSOLVED OXYGEN; *AERATION BASINS; *MANAGEMENT; *OPERATIONS (WASTEWATER); *PROCESS CONTROL; *WASTEWATER TREATMENT; *TREND-CHARTING

DESCRIPTIVE NOTE: 32-37P.

ABSTRACT: THIS IS THE FIFTH ARTICLE IN A SERIES ON PROCESS CONTROL FUNDAMENTALS. THIS ARTICLE CONSIDERS THE MEASUREMENT OF DISSOLVED OXYGEN (DO) IN THE AERATION BASIN.

AVAILABILITY: OPERATIONS FORUM; V3 N10

IRIS ACCESSION NUMBER: EW013954

PUBLICATION DATE: SEP 86

TITLE: FISH TAINTING AND HYDROCARBONS IN THE ENVIRONMENT: A PERSPECTIVE.

PERSONAL AUTHOR: TIDMARSH, W. G.; ACKMAN, R. G.
DESCRIPTOR: *CONTAMINATION; *FISH TAINTING; *ENVIRONMENT; *CANADA; *RESEARCH REPORTS; *OIL POLLUTION

DESCRIPTIVE NOTE: 76-86P.

ABSTRACT: THIS PAPER CONTAINS A SUMMARY OF A STUDY THAT REVIEWED THE QUESTION OF A POSSIBLE FISH TAINTING CAUSED BY THE INTRODUCTION OF HYDROCARBONS INTO THE MARINE ENVIRONMENT AS A RESULT OF OFFSHORE OIL AND GAS EXPLORATION AND DEVELOPMENT ACTIVITIES.

AVAILABILITY: SPILL TECHNOLOGY NEWSLETER; V11 N3

IRIS ACCESSION NUMBER: EW013955

PUBLICATION DATE: SEP 86

TITLE: THE BEHAVIOUR OF OIL IN FREEZING SITUATIONS.

PERSONAL AUTHOR: WILSON, DAVID G.; MACKAY, DONALD

DESCRIPTOR: *ENVIRONMENT; *ICE FIELDS; *OIL SPILLS; *RESEARCH REPORTS

DESCRIPTIVE NOTE: 87-100P.

ABSTRACT: DESCRIBED IS AN EXPERIMENTAL STUDY OF THE BEHAVIOR OF AN OIL SPILL IN A DEVELOPING ICE FIELD.

AVAILABILITY: SPILL TECHNOLOGY NEWSLETTER; V11 N3

IRIS ACCESSION NUMBER: EW013956

PUBLICATION DATE: OCT 86

TITLE: EUROPEAN FAUCETS POSE BACKFLOW POTENTIAL.

DESCRIPTOR: *BACKFLOW PROTECTION; *FAUCETS; *PLUMBING; *WATER DISTRIBUTION; *PUBLIC HEALTH

DESCRIPTIVE NOTE: 1, 8P.

ABSTRACT: DESCRIBED ARE BACKFLOW PROBLEMS WITH EUROPEAN STYLE FAUCETS. THE FAUCETS ARE A CROSS BETWEEN A HANDHELD SPRAYER AND A COMMON KITCHEN FAUCET.

AVAILABILITY: BACKFLOW PREVENTION; V3 N10

IRIS ACCESSION NUMBER: EW013959

PUBLICATION DATE: FALL 86

TITLE: RESULTS OF SURVEY OF MONITORING WELL PRACTICES AMONG GROUND WATER PROFESSIONALS.

PERSONAL AUTHOR: MCCRAY, KEVIN B.

DESCRIPTOR: *DESIGN; *CONSTRUCTION; *ENGINEERS; *GROUNDWATER; *EQUIPMENT; *MONITORING WELLS; *SURVEYS; *WATER QUALITY; *WATER WELLS

DESCRIPTIVE NOTE: 37-38P.

ABSTRACT: PRESENTED ARE THE RESULTS OF A SURVEY OF AMERICAN GROUND WATER SCIENTISTS AND ENGINEERS. DATA ARE PRESENTED ON EXPERIENCE RELATED TO MONITORING OF WELLS, TYPES OF WELLS DESIGNED, MATERIALS USED, AND STATES OF THOSE RESPONDING.

AVAILABILITY: GROUND WATER MONITORING REVIEW; V6 N4

IRIS ACCESSION NUMBER: EW013960

PUBLICATION DATE: FALL 86

TITLE: SORPTION OF ORGANICS BY MONITORING WELL CONSTRUCTION MATERIALS.

PERSONAL AUTHOR: SYKES, A. L.; AND OTHERS

DESCRIPTOR: *CASINGS; *MONITORING; *ORGANIC CHEMICALS; *SORPTION; *PERFORMANCE EVALUATION; *WATER WELLS

DESCRIPTIVE NOTE: 44-47P.

ABSTRACT: THIS STUDY WAS DESIGNED TO ADDRESS THE POTENTIAL FOR SORPTION OF PREVIOUSLY EXPOSED WELL CASING SURFACES. RESULTS ARE REPORTED.

AVAILABILITY: GROUND WATER MONITORING REVIEW; V6 N4

IRIS ACCESSION NUMBER: EW013961

PUBLICATION DATE: FALL 86

TITLE: UNDERGROUND STORAGE TANK MONITORING: OBSERVATION WELL BASED SYSTEMS.

PERSONAL AUTHOR: SCHEINFELD, RAYMOND A.; AND OTHERS

DESCRIPTOR: *LEAK DETECTION; *MONITORING; *STORAGE TANKS; *TECHNOLOGY; *UNDERGOUND STORAGE TANKS

DESCRIPTIVE NOTE: 49-55P.

ABSTRACT: THIS PAPER DESCRIBES THE AVAILABLE STATE-OF-THE-ART TECHNOLOGY FOR LEAK DETECTION AND THE APPLICATION FOR WHICH EACH SYSTEM IS BEST SUITED.

AVAILABILITY: GROUND WATER MONITORING REVIEW; V6 N4

IRIS ACCESSION NUMBER: EW013962

PUBLICATION DATE: OCT 86

TITLE: QUICK PAYBACK COMES AFTER PLC INSTALLED.

PERSONAL AUTHOR: DOBS, DAVID M.; AND OTHERS

DESCRIPTOR: *COSTS; *COMPUTER APPLICATIONS; *CONTROL SYSTEMS; *DELAWARE; *OPERATIONS (WATER); *WATER DISTRIBUTION

DESCRIPTIVE NOTE: 25-26P.

ABSTRACT: SIGNIFICANT COST REDUCTIONS WERE ACHIEVED WITH A PROGRAMMABLE CONTROL-BASED SYSTEM BY A DELAWARE WATER COMPANY.

AVAILABILITY: WATER ENGINEERING & MANAGEMENT; V133 N10

IRIS ACCESSION NUMBER: EW013963

PUBLICATION DATE: OCT 86

TITLE: PIPE DIGS SHOW EFFECTIVENESS OF POLY SHEET ENCASEMENT.

PERSONAL AUTHOR: MALIZIO, ANDREW B.

DESCRIPTOR: *CORROSION PROTECTION; *IRON PIPES; *PIPES; *POLYETHYLENE COVERING; *WATER PIPES; *WATER DISTRIBUTION

DESCRIPTIVE NOTE: 27-29P.

ABSTRACT: POLYETHYLENE WRAPPING PROVIDES LONG-TERM CORROSION PROTECTION FOR IRON WATER PIPES.

AVAILABILITY: WATER ENGINEERING AND MANAGEMENT; V133 N10

IRIS ACCESSION NUMBER: EW013964

PUBLICATION DATE: OCT 86

TITLE: EXPOSURES DETERMINE COATINGS IN WASTEWATER PLANTS.

PERSONAL AUTHOR: CARLSTEN, ROY

DESCRIPTOR: *COATINGS; *CORROSION PROTECTION; *FACILITIES; *OPERATIONS (WASTEWATER); *PERFORMANCE EVALUATION; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 30-33P.

ABSTRACT: COATING PROBLEMS IN WASTEWATER TREATMENT PLANTS CAN BE OVERCOME WITH PROPER PREPARATION AND MATERIAL SELECTION.

AVAILABILITY: WATER ENGINEERING & MANAGEMENT; V133 N10

IRIS ACCESSION NUMBER: EW013965

PUBLICATION DATE: OCT 86

TITLE: CHLORINATION SYSTEM FIGHTS BACTERIA PROBLEM.

PERSONAL AUTHOR: FALCE, DALE
DESCRIPTOR: *BACTERIA; *CHLORINE; *DISINFECTION; *HOSPITALS; *HOT WATER; *WATER DISTRIBUTION

DESCRIPTIVE NOTE: 36-37P.

ABSTRACT: A CHLORINE INJECTION SYSTEM RESOLVED A POSSIBLY DANGEROUS BACTERIAL CONTAMINATION PROBLEM IN A LARGE HOSPITAL'S HOT WATER SUPPLY.

AVAILABILITY: WATER ENGINEERING & MANAGEMENT; V133 N10

IRIS ACCESSION NUMBER: EW#13966

PUBLICATION DATE: 85

TITLE: THE IMPACT OF CHEMICALS ON A LIMITED RESOURCE: SAFE DRINKING WATER.

PERSONAL AUTHOR: RICE, RIP G.; ED.

DESCRIPTOR: *CHEMICALS; *CHEMICAL CONTAMINATION; *DRINKING WATER; *GROUNDWATER; *MONITORING; *REGULATIONS; *WATER TREATMENT; *WATER DISTRIBUTION; *WATER QUALITY

DESCRIPTIVE NOTE: 283P. PRICE: $34.95

ABSTRACT: ADDRESSED IS CHEMICAL CONTAMINATION OF DRINKING WATER. TOPICS INCLUDE SOURCES, MONITORING, REGULATIONS, LEACHING, AND GROUNDWATER CONTAMINATION.
AVAILABILITY: LEWIS PUBLISHERS, INC., 121 SOUTH MAIN STREET, P.O. DRAWER 519, CHELSEA, MI 48118

IRIS ACCESSION NUMBER: EW#13967

PUBLICATION DATE: 85

TITLE: RIVER WATER QUALITY MONITORING.

PERSONAL AUTHOR: CANTER, LARRY W.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *DATA ANALYSIS; *DATA COLLECTION; *MONITORING; *RIVERS; *SAMPLING; *WATER QUALITY

DESCRIPTIVE NOTE: 178P. PRICE: $28.##

ABSTRACT: PRESENTED IS INFORMATION FOR PLANNING AND CONDUCTING WATER QUALITY STUDIES OF RIVERS.

AVAILABILITY: LEWIS PUBLISHERS, INC., 121 SOUTH MAIN STREET, P.O. DRAWER 519, CHELSEA, MI 48118

IRIS ACCESSION NUMBER: EW#13968
PUBLICATION DATE: 81

TITLE: SEWAGE ORGANISMS: A COLOR ATLAS.

PERSONAL AUTHOR: FOX, J. CARL; AND OTHERS

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *BIOLOGY; *LABORATORY PROCEDURES; *MICROBIOLOGY; *OPERATIONS (WASTEWATER); *SEWAGE; *WASTEWATER TREATMENT; *SLUDGE; *BIOLOGICAL INDICATORS

DESCRIPTIVE NOTE: 116P. PRICE: $79.95

ABSTRACT: THIS PUBLICATION CONTAINS FULL-COLOR PHOTOMICROGRAPHS AND DESCRIPTIONS TO AID IN IDENTIFYING 136 DIFFERENT ORGANISMS FOUND IN SEWAGE. INFORMATION ON CONCENTRATION METHODS, COUNTING TECHNIQUES, STAINING METHODS AND FILTRATION METHODS IS INCLUDED.

AVAILABILITY: LEWIS PUBLISHERS, INC., 121 SOUTH MAIN STREET, P.O. DRAWER 519, CHELSEA, MI 48118

IRIS ACCESSION NUMBER: EW#13969

PUBLICATION DATE: 85

TITLE: IRRIGATION WITH RECLAIMED MUNICIPAL WASTEWATER.

PERSONAL AUTHOR: PETTYGROVE, G. STUART; ASANO, TAKASHI
DESCRIPTOR: *IRRIGATION; *AGRICULTURE; *RECYCLING; *RECLAIMED WASTEWATER; *WASTEWATER; *WATER REUSE; *WATER CONSERVATION; *WATER RESOURCES

DESCRIPTIVE NOTE: 518P. PRICE: $34.95

ABSTRACT: THIS PUBLICATION EMPHASIZES THE BENEFICIAL USE OF RECLAIMED WASTEWATER IN THE PLANNING, DESIGN, AND OPERATION, OF AGRICULTURAL AND LANDSCAPE IRRIGATION SYSTEMS.

AVAILABILITY: LEWIS PUBLISHERS, INC., 121 SOUTH MAIN STREET, P.O. DRAWER 519, CHELSEA, MI 48118

IRIS ACCESSION NUMBER: EW#13970

PUBLICATION DATE: 86

TITLE: TECHNIQUES FOR INDUSTRIAL POLLUTION PREVENTION.

PERSONAL AUTHOR: OVERCASH, MICHAEL R.; DETTERTOGH, MICHELLE D.

DESCRIPTOR: CHEMICAL INDUSTRY; BEVERAGE INDUSTRY; HAZARDOUS WASTES; FOOD INDUSTRY; *INDUSTRIAL POLLUTION; CONSTRUCTION INDUSTRY; *POLLUTION PREVENTION; METALS; TEXTILES; PAPER INDUSTRY; *WASTE REDUCTION; *WASTE MANAGEMENT

DESCRIPTIVE NOTE: 203P. PRICE: $34.95

ABSTRACT: THIS PUBLICATION PROVIDES 73 CASE STIDIES FOR WASTE ELIMINATION OR REDUCTION. EXAMPLES ARE PROVIDED FOR SEVERAL INDUSTRIES INCLUDING: (1) CHEMICAL, (2) FOOD AND BEVERAGE, (3) PLATING, (4) CONSTRUCTION, (5) METALLURGY, (6) TEXTILES AND (7) PULP AND PAPER.

AVAILABILITY: LEWIS PUBLISHERS, INC., 121 SOUTH MAIN STREET, P.O. DRAWER 519, CHELSEA, MI 48118

IRIS ACCESSION NUMBER: EW#13971

PUBLICATION DATE: JUL 86

TITLE: COMPUTERIZATION IN THE WATER AND WASTEWATER FIELDS.

PERSONAL AUTHOR: GYLSSON, EUGENE A.; AND OTHERS

DESCRIPTOR: EQUIPMENT; *COMPUTER APPLICATIONS; FACILITIES; *MANAGEMENT; *OPERATIONS (WATER); *OPERATIONS (WASTEWATER); PLANNING; *PROCESS CONTROL; *MAINTENANCE; *AUTOMATIC CONTROL SYSTEMS; *DESIGN; *WATER TREATMENT; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 29#P. PRICE: $39.95

ABSTRACT: THIS PUBLICATION SHOWS HOW TO USE ALL SIZES OF COMPUTERS (WITH EMPHASIS ON MICROCOMPUTERS) AT WATER AND WASTEWATER PLANTS. SECTIONS ARE INCLUDED ON OPERATIONS CONTROL, PROCESS CONTROL, MODELING, NETWORK ANALYSIS, DESIGN, POWER USE, AND MAINTENANCE. SUGGESTIONS AND EXAMPLES ARE PROVIDED FOR BOTH LARGE AND SMALL FACILITIES.

AVAILABILITY: LEWIS PUBLISHERS, INC., 121 SOUTH MAIN STREET, P.O. DRAWER 519, CHELSEA, MI 48118

IRIS ACCESSION NUMBER: EW#13972

PUBLICATION DATE: 84

TITLE: MEMBRANE AND ULTRAFILTRATION TECHNOLOGY.

PERSONAL AUTHOR: TORREY, S.; ED.

DESCRIPTOR: *FILTRATION; *FLUIDS; *MEMBRANE FILTRATION; *ULTRAFILITRATION; *RESEARCH; *TECHNOLOGY; *PATENTS; *RESEARCH NEEDS

DESCRIPTIVE NOTE: 476P. PRICE: $61.52

ABSTRACT: THIS BOOK PROVIDES TECHNIQUES FOR THE SEPARATION AND PURIFICATION OF FLUIDS. THE BOOK CONTAINS TWO PARTS. PART I DESCRIBES RECENT PATENT TECHNOLOGY IN THE FIELD, AND PART II IS AN OVERVIEW OF MEMBRANE SEPARATION PROCESSES WHICH PROVIDE A REVIEW OF CURRENT TECHNOLOGY AND SUGGESTS SOME POSSIBLITIES FOR FUTURE RESEARCH.

AVAILABILITY: NOYES DATA CORPORATION, MILL ROAD, PARK RIDGE, NEW JERSEY, #7656

IRIS ACCESSION NUMBER: EW#13973

PUBLICATION DATE: 84

TITLE: MANAGING SLUDGE BY COMPOSTING.

DESCRIPTOR: DESIGN; *COMPOSTING; ECONOMICS; FACILITIES; *INDUSTRIAL WASTES; MANAGEMENT; MARKETING; *OPERATIONS (WASTEWATER); PUBLIC HEALTH; QUALITY CONTROL; *SLUDGE; *RECYCLING; *WASTE MANAGEMENT; *RESOURCE RECOVERY

DESCRIPTIVE NOTE: 322P. PRICE: $49.45

ABSTRACT: THE BOOK BEGINS BY IDENTIFYING AND DESCRIBING COMPOSTING INSTALLATIONS IN THE USA; THE SURVEY IS FOLLOWED BY AN IN-DEPTH ANALYSIS OF THE ECONOMICS OF COMPOSTING. SECTION II PROVIDES INFORMATION ON THE DESIGN AND OPERATION OF A COMPOST FACILITY, AND SECTION III COVERS INDUSTRIAL WASTE APPLICATIONS. THE NEXT SECTION CONSIDERS PUBLIC HEALTH AND QUALITY CONTROL, AND OFFERS SUCCESSFUL COMPOST MARKETING STRATEGIES. THE BOOK CONCLUDES WITH A SECTION ON PROBLEM-SOLVING RESEARCH.

AVAILABILITY: THE JG PRESS, INC., BOX 351, EMMAUS, PA 18#49

IRIS ACCESSION NUMBER: EW#13974

PUBLICATION DATE: 85

TITLE: INNOVATIONS IN THE WATER AND WASTEWATER FIELDS.

PERSONAL AUTHOR: GLYSSON, E. A.; AND OTHERS

DESCRIPTOR: *LABORATORY PROCEDURES; *INNOVATIONS; *MONITORING; *OPERATIONS (WATER); *OPERATIONS (WASTEWATER); *TECHNOLOGY; *WATER TREATMENT; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 259P. PRICE: $68.75

ABSTRACT: IMPORTANT INNOVATIONS ARE BEING MADE IN WATER TREATMENT. THOSE CONSIDERED IN THIS BOOK INCLUDE: UNCONVENTIONAL WATER FILTRATION RATES, MIXED FILTER MEDIA AND BACKWASHING TECHNIQUES, DIRECT FILTRATION, TUBE SETTLERS, DISINFECTION, AND THE EFFECTS OF AMMONIA ON WATER QUALITY. NEW TECHNOLOGY THAT IS BEING DEVELOPED IN GROUNDWATER MONITORING AND LABORATORY TECHNIQUES IS ALSO DISCUSSED. TREATMENT TECHNIQUES INVOLVING OZONE AND ACTIVATED CARBON ALONG WITH SUCH INNOVATIONS AS ENERGY CONSERVATION, COMPUTER APPLICATIONS AND PILOT PLANT UTILIZATION ARE PRESENTED.

AVAILABILITY: BUTTERWORTH PUBLISHERS, 8# MONTVALE AVENUE, STONEHAM, MA #218#

IRIS ACCESSION NUMBER: EW#13975

PUBLICATION DATE: 86

TITLE: AERATION SYSTEMS DESIGN, TESTING, OPERATION, AND

CONTROL. POLLUTION TECHNOLOGY REVIEW NO. 127.

PERSONAL AUTHOR: BOYLE, WILLIAM C.; ED.

DESCRIPTOR: *AERATION SYSTEMS; *DESIGN; *EQUIPMENT; *MAINTENANCE; *OPERATIONS (WASTEWATER); *PERFORMANCE EVALUATION; *TESTING; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 452P. PRICE: $42.00

ABSTRACT: THIS BOOK PROVIDES INFORMATION ON RESEARCH AND DEVELOPMENT ACTIVITIES IN THE FIELD OF AERATION SYSTEM DESIGN, OPERATION, PERFORMANCE AND TESTING FOR WASTEWATER TREATMENT FACILITIES.

AVAILABILITY: NOYES PUBLICATIONS, MILL ROAD AT GRAND AVENUE, PARK RIDGE, NEW JERSEY 07656

IRIS ACCESSION NUMBER: EW013976

PUBLICATION DATE: 86

TITLE: AQUIFER RESTORATION STATE OF THE ART. POLLUTION TECHNOLOGY REVIEW NO. 131.

PERSONAL AUTHOR: KNOX, R. C.; AND OTHERS

DESCRIPTOR: *AQUIFER RESTORATION; CONTAMINATION; *GROUNDWATER; COSTS; *PERFORMANCE EVALUATION; *TECHNOLOGY; *WATER POLLUTION CONTROL; *WATER TREATMENT; WATER RESOURCES; WATER QUALITY
DESCRIPTIVE NOTE: 750P. PRICE: $64.00

ABSTRACT: THIS PUBLICATION PRESENTS INFORMATION ON THE EFFECTIVENESS OF VARIOUS AQUIFER RESTORATION TECHNOLOGIES. SECTIONS ARE INCLUDED IN THE VOLUME ON THE FOLLOWING TOPICS: (1) CONCLUSIONS; (2) RECOMMENDATIONS; (3) GROUNDWATER POLLUTION CONTROL; (4) TREATMENT OF GROUNDWATER; (5) IN-SITU TECHNOLOGIES; (6) PROTOCOL FOR AQUIFER RESTORATION DECISION-MAKING; AND (7) TECHNOLOGIES FOR DECISION-MAKING.

AVAILABILITY: NOYES PUBLICATIONS, MILL ROAD AT GRAND AVENUE, PARK RIDGE, NEW JERSEY 07656

IRIS ACCESSION NUMBER: EW013977

PUBLICATION DATE: 86

TITLE: PLUMBING MATERIALS AND DRINKING WATER QUALITY. POLLUTION TECHNOLOGY REVIEW NO. 128.

PERSONAL AUTHOR: SORG, THOMAS J.; BELL, FRANK A., JR.

DESCRIPTOR: *DRINKING WATER; *PLASTIC PIPES; *METALS; *PLUMBING; *PUBLIC HEALTH; *REGULATIONS; *WATER PIPES; *WATER DISTRIBUTION; *WATER QUALITY

DESCRIPTIVE NOTE: 182P. PRICE: $36.00

ABSTRACT: THIS BOOK PRESENTS A REVIEW OF DRINKING WATER PROBLEMS RELATED TO PLUMBING MATERIALS AND THE IDENTIFICATION OF SOLUTIONS FOR DEALING WITH THESE PROBLEMS.

AVAILABILITY: NOYES PUBLICATIONS, MILL ROAD AT GRAND AVENUE, PARK RIDGE, NEW JERSEY 07656

IRIS ACCESSION NUMBER: EW013978

PUBLICATION DATE: 85

TITLE: IDENTIFYING AND REDUCING LOSSES IN WATER DISTRIBUTION SYSTEMS.

PERSONAL AUTHOR: MALE, JAMES W.; AND OTHERS

DESCRIPTOR: *DRINKING WATER; *GUIDELINES; *LEAK DETECTION; *MAINTENANCE; *OPERATIONS (WATER); *WATER METERS; *WATER DISTRIBUTION; *WATER SUPPLY

DESCRIPTIVE NOTE: 156P. PRICE: $32.00

ABSTRACT: THIS BOOK PROVIDES GUIDELINES FOR ASSESSING PROBLEMS ASSOCIATED WITH THE WATER SUPPLY PURVEYANCE SYSTEM. INCLUDED ARE RECOMMENDATIONS FOR DETERMINING WATER USE, ESTIMATING WATER SYSTEM LOSSES, EVALUATING ALTERNATIVES FOR WATER SYSTEM IMPROVEMENTS, AND ASCERTAINING THE BENEFITS AND COSTS INVOLVED.

AVAILABILITY: NOYES PUBLICATIONS, MILL ROAD AT GRAND AVENUE, PARK RIDGE, NEW JERSEY 07656

IRIS ACCESSION NUMBER: EW013979

PUBLICATION DATE: JUN 86

TITLE: RCRA HANDBOOK, SECOND EDITION.

DESCRIPTOR: *HAZARDOUS WASTES; *COMPLIANCE; *ENFORCEMENT; GROUNDWATER; ENVIRONMENT; *PERMITS; *RCRA; *RESOURCE CONSERVATION AND RECOVERY ACT; FACILITIES; *SOLID WASTES; WASTE STORAGE; *WASTE DISPOSAL; WASTE TREATMENT; *REGULATIONS

DESCRIPTIVE NOTE: 133P. PRICE: $9.00

ABSTRACT: THE SECOND EDITION OF THIS HANDBOOK COVERS THE BASIC FUNDAMENTALS OF THE RESOURCE CONSERVATION AND RECOVERY ACT (RCRA). SECTIONS ARE INCLUDED ON (1) DESCRIBING RCRA, (2) MANAGING RCRA COMPLIANCE, AND (3) ERT SERVICES.

AVAILABILITY: ERT A RESOURCE ENGINEERING COMPANY, 696 VIRGINIA ROAD, CONCORD, MASSACHUSETTS 01742

IRIS ACCESSION NUMBER: EW#13980
PUBLICATION DATE: DEC 85

TITLE: GREAT LAKES ENVIRONMENTAL RESEARCH LABORATORY. ANNUAL REPORT FY 1985.

DESCRIPTOR: *LAKES; *GREAT LAKES; *HYDROLOGY; *ECOLOGY; *ENVIRONMENTAL SYSTEMS; *ECOSYSTEMS; *LIMNOLOGY; *ANNUAL REPORTS; *METEOROLOGY; *RESEARCH; *WATER RESOURCES; *WATER QUALITY

DESCRIPTIVE NOTE: 55P.

ABSTRACT: THIS ANNUAL REPORT OF THE GREAT LAKES ENVIRONMENTAL RESEARCH LABORATORY (GLERL) PROVIDES A SUMMARY OF SIGNIFICANT ACCOMPLISHMENTS AND ACTIVITIES RELATED TO ITS RESEARCH PROGRAMS DURING FISCAL YEAR 1985. RESEARCH REPORTED INCLUDES: (1) SYNTHETIC ORGANICS AND PARTICLE DYNAMICS; (2) ECOSYSTEM AND NUTRIENT DYNAMICS; (3) LAKE HYDROLOGY; (4) PHYSICAL LIMNOLOGY AND METEOROLOGY; AND (4) ENVIRONMENTAL SYSTEMS STUDIES.

AVAILABILITY: SUPERINTENDANT OF DOCUMENT, GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20###

IRIS ACCESSION NUMBER: EW#13982

PUBLICATION DATE: AUG 86

TITLE: STATEMENT OF POLICY AND PRACTICES FOR THE PROTECTION OF GROUNDWATER.

DESCRIPTOR: *DRINKING WATER; *GROUNDWATER; *HAZARDOUS WASTES; *NATIONAL WILDLIFE FEDERATION; *POLICIES; *PRACTICES; *WATER POLLUTION CONTROL; *WATER RESOURCES; *WATER QUALITY

DESCRIPTIVE NOTE: 18P.

ABSTRACT: THIS IS A STATEMENT OF POLICIES AND PRACTICES FOR PROTECTION OF GROUNDWATER ISSUED BY THE CORPORATE CONSERVATION COUNCIL OF THE NATIONAL WILDLIFE FEDERATION.

AVAILABILITY: NATIONAL WILDLIFE FEDERATION, 1412 SIXTEENTH STREET, N.W., WASHINGTON, D.C. 20036-2266

IRIS ACCESSION NUMBER: EW#13987

PUBLICATION DATE: 86

TITLE: 1986 WORLD CATALOG OF OIL SPILL RESPONSE PRODUCTS.

PERSONAL AUTHOR: SCHULZE, ROBERT; ED.

DESCRIPTOR: *ENVIRONMENT; *CLEAN-UP; *EQUIPMENT; *OILSPILLS; *OILSPILL BOOMS; *OILSPILL SKIMMERS; *PERFORMANCE EVALUATION; *MANUFACTURERS; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 349P. PRICE: $5#.##
ABSTRACT: THIS CATALOG PROVIDES A SINGLE SOURCE OF DATA FOR NEARLY ALL OILSPILL BOOMS AND SKIMMERS CURRENTLY AVAILABLE. IN ADDITION, INFORMATION IS INCLUDED ON OPERATION AND SELECTION OF BOOMERS AND SKIMMERS, PERFORMANCE DESCRIPTION, AND INFORMATION ON SOURCES OF EQUIPMENT.

AVAILABILITY: WORLD CATALOG OF OIL SPILL RESPONSE PRODUCTS, 6154 ROCKBURN HILL ROAD, ELKRIDGE, MARYLAND 21227

IRIS ACCESSION NUMBER: EW#13988

PUBLICATION DATE: 86

TITLE: 1986 WORLD CATALOG OF OIL SPILL RESPONSE PRODUCTS. DATA BASE SUMMARY.

PERSONAL AUTHOR: SCHULZE, ROBERT; ED.

DESCRIPTOR: *DATABASE; *EQUIPMENT; *CLEANUP; ENVIRONMENT; *OILSPILLS; PERFORMANCE EVALUATION; *OILSPILL BOOMS; *OILSPILL SKIMMERS; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 177P. PRICE: $35.##

ABSTRACT: THIS IS A SUMMARY OF THE WORLD CATALOG OF OIL SPILL RESPONSE PRODUCTS DATABASE. INCLUDED ARE RESULTS OF SEARCHES OF OIL SPILL BOOMS AND SKIMMERS. DATA ON OIL SPILL BOOMS INCLUDE: (1) BUOYANCY AND FLOTATION; (2) TENSILE STRENGTH; (3) OPERATIONS; AND (4) LOGISTICS. DATA ON OIL SPILLS INCLUDES: (1) EQUIPMENT DESCRIPTION; (2) SKIMMER OPERATIONS; (3) SKIMMER LOGISTICS; AND (4) SKIMMER TESTS.

AVAILABILITY: WORLD CATALOG OF OIL SPILL RESPONSE PRODUCTS, 6154 ROCKBURN HILL ROAD, ELKRIDGE, MARYLAND 21227

IRIS ACCESSION NUMBER: EW#13990

PUBLICATION DATE: 85

TITLE: WATER TREATMENT SPECIFICATION MANUAL.

PERSONAL AUTHOR: ROSA, FRANK

DESCRIPTOR: *CHEMICALS; *EQUIPMENT; *HVAC SYSTEMS; *MAINTENANCE; *OPERATIONS (WATER); *SPECIFICATIONS; *TROUBLESHOOTING; *WATER TREATMENT; *DESIGN

DESCRIPTIVE NOTE: 207P.

ABSTRACT: THIS PUBLICATION IS A HOW-TO GUIDE FOR PEOPLE WHO DESIGN, OPERATE OR MAINTAIN HVAC SYSTEMS. INFORMATION IS INCLUDED ON PREVENTING AND CORRECTING WATER TREATMENT PROBLEMS AND CHOOSING CORRECT CHEMICALS AND EQUIPMENT FOR THE JOB.

AVAILABILITY: SCRANTON GILLETTE COMMUNICATIONS, INC., 380 NORTHWEST HIGHWAY, DES PLAINES, IL 60016

IRIS ACCESSION NUMBER: EW@13991

PUBLICATION DATE: 86

TITLE: GROUNDWATER ENGINEERING.

PERSONAL AUTHOR: KASHEF, ABDEL-AZIZ ISMAIL

DESCRIPTOR: BIBLIOGRAPHIES; *ENGINEERING; *GROUNDWATER; *HYDROLOGY; *MANAGEMENT; *WATER WELLS; *CONTAMINATION; *WATER RESOURCES; *WATER SUPPLY; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 512P.

ABSTRACT: PRESENTS A DISCUSSION OF GROUNDWATER ENGINEERING INCLUDING GROUNDWATER CIRCULATION, SEEPAGE, WATER WELLS, SALTWATER INTRUSION AND GROUNDWATER MANAGEMENT. CONTAINED ARE FORMULAS, EXAMPLES AND SOLUTIONS TO PROBLEMS, AND AN EXTENSIVE BIBLIOGRAPHY.

AVAILABILITY: SCRANTON GILLETTE COMMUNICATIONS, INC., 38@ NORTHWEST HIGHWAY, DES PLAINES, IL 6@@16

IRIS ACCESSION NUMBER: EW@13992

PUBLICATION DATE: 86

TITLE: WATER RESOURCES PLANNING.

PERSONAL AUTHOR: GRIGG, NEIL S.

DESCRIPTOR: *ENVIRONMENT; *CONSERVATION; *MANAGEMENT; *PLANNING; *ENVIRONMENTAL IMPACT; *WATER RESOURCES; *WATER SUPPLY; *WATER QUALITY

DESCRIPTIVE NOTE: 329P.

ABSTRACT: THIS BOOK EXPLORES WATER RESOURCES PLANNING AND HOW IT IS ACCOMPLISHED. DESCRIBES SOME POSSIBLE WAYS TO SOLVE THE WATER RESOURCES PROBLEM WITHOUT CAUSING ENVIRONMENTAL DAMAGE.

AVAILABILITY: SCRANTON GILLETTE COMMUNICATIONS, INC., 38@ NORTHWEST HIGHWAY, DES PLAINES, IL 6@@16

IRIS ACCESSION NUMBER: EW@13993

PUBLICATION DATE: 85

TITLE: TOXIC SUBSTANCE STORAGE TANK CONTAINMENT.

DESCRIPTOR: *ACCIDENT PREVENTION; *CONTAMINATION; *CONTAINMENT; *POLLUTION CONTROL; *PUBLIC HEALTH; *STORAGE TANKS; *TOXIC SUBSTANCES; *SAFETY; *ENVIRONMENT

DESCRIPTIVE NOTE: 274P.

ABSTRACT: THIS PUBLICATION PROVIDES BASIC GUIDELINES FOR TOXIC SUBSTANCE STORAGE TANK CONTAINMENT ASSURANCE AND SAFETY PROGRAMS.

AVAILABILITY: SCRANTON GILLETTE COMMUNICATIONS, INC., 38@ NORTHWEST HIGHWAY, DES PLAINES, IL 6@@16

IRIS ACCESSION NUMBER: EW@13994

PUBLICATION DATE: 84

TITLE: TRIHALOMETHANE REDUCTION IN DRINKING WATER.

PERSONAL AUTHOR: CULP, GORDON; ED.

DESCRIPTOR: *DISINFECTION; *DRINKING WATER; *OPERATIONS (WATER); *PUBLIC HEALTH; *THMS; *TRIHALOMETHANE; *WATER TREATMENT

DESCRIPTIVE NOTE: 251P.

ABSTRACT: EVALUATED ARE TECHNOLOGIES FOR REDUCING TRIHALOMETHANE IN DRINKING WATER.

AVAILABILITY: SCRANTON GILLETTE COMMUNICATIONS, INC., 38@ NORTHWEST HIGHWAY, DES PLAINES, IL 6@@16

IRIS ACCESSION NUMBER: EW@13995

PUBLICATION DATE: 85

TITLE: CONTAMINANT REMOVAL FROM PUBLIC WATER SYSTEMS.

PERSONAL AUTHOR: HOUCK, DANIEL C., ET AL

DESCRIPTOR: *DRINKING WATER; *CONTAMINANTS; *CONTAMINATION; *OPERATIONS (WATER); *WATER DISTRIBUTION; *WATER TREATMENT; *WATER QUALITY

DESCRIPTIVE NOTE: 524P.

ABSTRACT: THIS PUBLICATION DESCRIBES METHODS FOR CONTAMINANT REMOVAL FROM PUBLIC WATER SYSTEMS.

AVAILABILITY: SCRANTON GILLETTE COMMUNICATIONS, INC., 38@ NORTHWEST HIGHWAY, DES PLAINES, IL 6@@16

IRIS ACCESSION NUMBER: EW@13997

PUBLICATION DATE: 86

TITLE: WATER MANAGEMENT IN TRANSITION 1985.

DESCRIPTOR: *WATER CONSERVATION; *FEDERAL ROLE; *GOVERNMENT ROLE; *MANAGEMENT; *PRIVATE SECTOR ROLE; *STATE ROLE; *TRENDS; *WATER RESOURCES; *WATER SUPPLY

ABSTRACT: THIS PUBLICATION PRESENTS A SERIES OF PRESENTATIONS ON WATER MANAGEMENT. THE PRESENTATIONS ARE GROUPED INTO THREE MAIN SECTIONS: (1) A FEDERAL PERSPECTIVE; (2) A STATE PERSPECTIVE; AND (3) PUBLIC/PRIVATE SECTOR RESPONSES.

AVAILABILITY: FRESHWATER FOUNDATION, 2500 SHADYWOOD RD., BOX 90, NAVARRE, MN 55392

IRIS ACCESSION NUMBER: EW013998

PUBLICATION DATE: 86

TITLE: HUMAN ACTIVITY AND THE ENVIRONMENT.

DESCRIPTOR: *CANADA; DATA; *ENVIRONMENT; DEMOGRAPHY; ECONOMICS; *HUMAN ACTIVITY; *INFORMATION SOURCES; *REFERENCE MATERIALS; STATISTICS

DESCRIPTIVE NOTE: 375P. PRICE: $45.00 CANADA; $55.00 OUTSIDE CANADA.

ABSTRACT: THIS PUBLICATION IS THE MOST COMPREHENSIVE STATISTICAL DESCRIPTION OF THE VARIETY AND INTENSITY OF HUMAN VENTURES THAT AFFECT CANADAS' ECOSYSTEM. EVERYTHING IS DOCUMENTED FROM POPULATION DISTRIBUTION TO MINING AND FROM INDUSTRIAL EMISSIONS TO CONTAMINANTS IN FISH. INCLUDED ARE 172 TABLES, 66 CHARTS, AND 77 MAPS.

AVAILABILITY: PUBLICATION SALES & SERVICES, STATISTICS CANADA, OTTAWA, ONTARIO K1A 0T6

IRIS ACCESSION NUMBER: EW013999

PUBLICATION DATE: 86

TITLE: STATE OF THE ENVIRONMENT REPORT.

DESCRIPTOR: *CANADA; *ENVIRONMENT; CONTAMINANTS; AGRICULTURE; FORESTS; LAND USE; MARINE ENVIRONMENTS; PUBLIC ATTITUDES; *STATES; *TRENDS; WATER; WILDLIFE

DESCRIPTIVE NOTE: 276P. PRICE: $25.00 CANADA; $30.00 OUTSIDE CANADA.

ABSTRACT: THIS PUBLICATION PROVIDES AN ASSESSMENT OF CURRENT ENVIRONMENTAL CONDITIONS, TRENDS, AND CHANGES ACROSS CANADA. THE PUBLICATION EXAMINES A VARIETY OF STRESSES ON THE ENVIRONMENT AND THE EFFECTS THEY HAVE ON CANADIAN ECOSYSTEMS. THE REPORT DIVIDES THE COUNTRY INTO 15 ECOZONES AND DISCUSSES TRENDS AND CONDITIONS RELATED TO THESE AREAS.

AVAILABILITY: CANADIAN GOVERNMENT PUBLISHING CENTER, SUPPLY AND SERVICES CANADA, OTTAWA, ONTARIO K1A 0S9

IRIS ACCESSION NUMBER: EW014001

PUBLICATION DATE: OCT 86

TITLE: OPERATOR TRAINING: THE KEY TO SUCCESSFUL COMPUTER CONTROL.

PERSONAL AUTHOR: YOUNKIN, CLYDE S.; JOHNSON, FLOYED B.

DESCRIPTOR: *AUTOMATION; *COMPUTER APPLICATIONS; *COMPUTER CONTROL; *PROCESS CONTROL; *MARYLAND; *OPERATIONS (WASTEWATER); *TRAINING; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 944-948P.

ABSTRACT: OPERATOR TRAINING IS CONSIDERED THE KEY ELEMENT TO SUCCESSFUL COMPUTER CONTROL. DESCRIBED ARE THE EXPERIENCES OF A MARYLAND WASTEWATE TREATMENT PLANT.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION: V58 N10

IRIS ACCESSION NUMBER: EW014002

PUBLICATION DATE: OCT 86

TITLE: PROCESS CONTROL AND MANAGEMENT INFORMATION PROCESSING AT A MUNICIPAL WASTEWATER TREATMENT PLANT.

PERSONAL AUTHOR: WILLIAMS, DAMON; AND OTHERS

DESCRIPTOR: *COMPUTER APPLICATIONS; *COMPUTER CONTROL; *ARIZONA; *INFORMATION PROCESSING; *EQUIPMENT; *OPERATIONS (WASTEWATER); *PROCESS CONTROL; *MANAGEMENT; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 949-953P.

ABSTRACT: DESCRIBED IS A NETWORK OF MINICOMPUTERS AND DISTRIBUTED CONTROL MULTIPLEXERS THAT COMPOSE AN INTEGRATED PROCESS MONITORING AND CONTROL SYSTEM FOR A MUNICIPAL WASTEWATER TREATMENT PLANT.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION: V58 N10

IRIS ACCESSION NUMBER: EW014003

PUBLICATION DATE: OCT 86

TITLE: COMPUTER DETECTION OF THE IMPACT OF HYDRAULIC SHOCKS ON PLANT PERFORMANCE.

PERSONAL AUTHOR: OLSSON, GUSTAF; AND OTHERS

DESCRIPTOR: *DESIGN; *HYDRAULICS; *INFLUENT; *HYDRAULIC SHOCK; *MODELS; *OPERATIONS (WASTEWATER); *PERFORMANCE EVALUATION; *RESEARCH REPORTS; *WASTEWATER TREATMENT; *WASTEWATER COLLECTION; *WASTEWATER FLOW

DESCRIPTIVE NOTE: 954-959P.

ABSTRACT: COMBINED HYDRAULIC AND SETTLER MODELS HAVE IMPLICATIONS FOR PLANT OPERATION AND DESIGN. THIS RESEARCH EVALUATED THE EFFECT OF INFLUENT AND RECYCLE PUMPING DESTURBANCES ON FINAL SETTLER EFFICIENCY.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION: V58 N10

IRIS ACCESSION NUMBER: EW0140004

PUBLICATION DATE: OCT 86

TITLE: MICROCOMPUTERS AND WATER QUALITY MODELS: ACCESS FOR DECISION MAKERS.

PERSONAL AUTHOR: HEIDTKE, T. M.; AND OTHERS

DESCRIPTOR: *COMPUTER APPLICATIONS; *DECISION MAKING; *MANAGEMENT; *MODELS; *OPERATIONS (WATER); *POLICIES; *WATER QUALITY; *WATER RESOURCES

DESCRIPTIVE NOTE: 960-966P.

ABSTRACT: THE VISUAL COMMUNICATION POTENTIAL OF THE MICROCOMPUTER CAN BE USED AT ALL LEVELS OF WATER QUALITY MANAGEMENT AND DECISION-MAKING. THIS PAPER DEMONSTRATES HOW MANAGERS AND DECISION-MAKERS USING WATER QUALITY MODELS CAN STORE AND MANIPULATE EXTENSIVE DATA SETS, IDENTIFY KEY WATER QUALITY MECHANISMS, TEST ALTERNATIVE MANAGEMENT SCENARIOS, AND REMEDIAL ACTION PLANS.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION; V58 N10

IRIS ACCESSION NUMBER: EW0140005

PUBLICATION DATE: OCT 86

TITLE: OPERATION AND MAINTENANCE REQUIREMENTS FOR SMALL-FLOW TREATMENT SYSTEMS.

PERSONAL AUTHOR: ENGLEHARDT, JAMES D.; WARD, ROBERT C.

DESCRIPTOR: *COSTS; *ENERGY REQUIREMENTS; *EQUIPMENT; *MAINTENANCE; *ONSITE WASTEWATER TREATMENT; *OPERATIONS (WASTEWATER); *PERSONNEL; *SMALL FLOWS; *SEPTIC TANKS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 967-971P.

ABSTRACT: PROPER PLANNING FOR ALL ASPECTS OF OPERATION AND MAINTENANCE IS CRITICAL TO THE SUCCESSFUL USE OF SMALL-FLOW OR ONSITE TECHNOLOGY. THIS RESEARCH QUANTIFIED PROCEDURAL, MATERIAL, PERSONNEL, AND ENERGY REQUIREMENTS ASSOCIATED WITH A RANGE OF ON-SITE TECHNOLOGIES.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION, V58 N10

IRIS ACCESSION NUMBER: EW0140006

PUBLICATION DATE: OCT 86

TITLE: CONTROL OF ACTINOMYCETE SCUM ON AERATION BASINS AND CLARIFIERS.

PERSONAL AUTHOR: SEZGIN, MESUT; KARR, PHILIP R.

DESCRIPTOR: *ACTIVATED SLUDGE; *ACTINOMYCETE; *ACTINOMYCETE SCUM; *MANAGEMENT; *OPERATIONS (WASTEWATER); *PERFORMANCE EVALUATION; *PROCESS CONTROL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 972-977P.

ABSTRACT: REDUCTIONS IN SLUDGE AGE, AIR FLOW-RATE AND PH WERE EFFECTIVE CONTROL MEASURES FOR ACTINOMYCETE SCUM; PREMIXING RETURN SLUDGE WITH AERATION TANK INFLUENT ALSO SHOWED PROMISE.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION, V58 N10

IRIS ACCESSION NUMBER: EW0140007

PUBLICATION DATE: OCT 86

TITLE: EFFECTS OF FEED PATTERN AND DISSOLVED OXYGEN ON GROWTH OF FILAMENTOUS BACTERIA.

PERSONAL AUTHOR: NOWAK, GRACE; AND OTHERS

DESCRIPTOR: *ACTIVATED SLUDGE; *BACTERIA; *FILAMENTOUS BACTERIA; *BULKING; *MANAGEMENT; *OPERATIONS (WASTEWATER); *PERFORMANCE EVALUATION; *PROCESS CONTROLS; *SLUDGE; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 978-984P.

ABSTRACT: THE GENERAL EFFECTS OF FEED PATTERN AND DISSOLVED OXYGEN ON SLUDGE BULKING HAVE BEEN CONFIRMED FOR THREE SPECIFIC FILAMENTOUS ORGANISMS.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION, V58 N10

IRIS ACCESSION NUMBER: EW0140008

PUBLICATION DATE: OCT 86

TITLE: PATHOGEN AND INDICATOR ORGANISM DESTRUCTION BY THE DUAL DIGESTION SYSTEM.

PERSONAL AUTHOR: APPLETON, A. RON, JR.; AND OTHERS

DESCRIPTOR: *DIGESTION SYSTEMS; *OPERATIONS (WASTEWATER); *PERFORMANCE EVALUATION; *PATHOGENS; *PUBLIC HEALTH; *SLUDGE; *SLUDGE DISPOSAL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 992-999P.

ABSTRACT: DESCRIBED IS A DUAL DIGESTION SYSTEM THAT CAN ACHIEVE A LEVEL OF PATHOGEN DESTRUCTION THAT WOULD ALLOW MORE OPTIONS FOR SLUDGE DISPOSAL, BUT SOME QUESTIONS REMAIN ABOUT OPERATIONAL RELIABILITY.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION, V58 N10

IRIS ACCESSION NUMBER: EW0140009
PUBLICATION DATE: OCT 86

TITLE: EPA DESIGN INFORMATION REPORT: FLOW MEASUREMENT INSTRUMENTATION.

DESCRIPTOR: *EQUIPMENT; *FLOW METERS; *DESIGN; *PERFORMANCE EVALUATION; *MEASUREMENT; *MONITORING; *OPERATIONS (WASTEWATER); *SELECTION; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 1005-1009P.

ABSTRACT: THIS ARTICLE PRESENTS INFORMATION CONCERNING THE SELECTION AND PROPER APPLICATION OF THE PRIMARY ELEMENT OF FLOW METER DEVICES. DETAILS ON DESIGN AND SELECTION OF FLOW METER DEVICES ARE IN THE REFERENCES FOR THIS ARTICLE.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION; V58 N10

IRIS ACCESSION NUMBER: EW0140010

PUBLICATION DATE: OCT 86

TITLE: EPA DESIGN INFORMATION REPORT: PROTECTION OF WASTEWATER LAGOON INTERIOR SLOPES.

DESCRIPTOR: *DESIGN; *EROSION; *EROSION CONTROL; *LAGOONS; *FACILITIES; *OPERATIONS (WASTEWATER); *PERFORMANCE EVALUATION; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 1010-1014P.

ABSTRACT: THIS ARTICLE DESCRIBES PROCEDURES AND MATERIALS TO PROTECT WASTEWATER LAGOON INTERIOR SLOPES FROM EROSION.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION; V58 N10

IRIS ACCESSION NUMBER: EW0140011

PUBLICATION DATE: OCT 86

TITLE: OVERCOMING MANAGEMENT RESISTANCE TO CAREER DEVELOPMENT PROGRAMS.

PERSONAL AUTHOR: LEIBOWITZ, ZANDY, B.; AND OTHERS

DESCRIPTOR: *CAREER DEVELOPMENT; *EMPLOYEES; *HUMAN RESOURCE DEVELOPMENT; *MANAGEMENT; *PERSONNEL; *STAFF DEVELOPMENT

DESCRIPTIVE NOTE: 77-81P.

ABSTRACT: THIS ARTICLE DESCRIBES WAYS OF HELPING MANAGEMENT TO SEE THAT CAREER DEVELOPMENT PROGRAMS CAN WORK FOR THEM, THEIR ORGANIZATION, AND THEIR EMPLOYEES.

AVAILABILITY: TRAINING AND DEVELOPMENT JOURNAL; V40 N10

IRIS ACCESSION NUMBER: EW0140012
PUBLICATION DATE: 85

TITLE: WATER RESOURCES PLANNING.

PERSONAL AUTHOR: GRIGG, NEIL S.

DESCRIPTOR: *CONSERVATION; ECONOMICS; GOVERNMENT ROLE; *MANAGEMENT; *PLANNING; *POLICIES; NATURAL RESOURCES; REGULATIONS; TECHNOLOGY; *WATER RESOURCES; *WATER SUPPLY

DESCRIPTIVE NOTE: 329P. PRICE: $39.95

ABSTRACT: THIS PUBLICATION CONSIDER WATER PLANNING BY LINKING TECHNICAL, FINANCIAL, AND POLITICAL FACTORS FROM BOTH THE GOVERNMENTAL AND PRIVATE SECTORS. DESCRIBES WHAT CAN BE DONE TO SOLVE THE WATER CRISIS WITHOUT CAUSING ENVIRONMENTAL DAMAGE.

AVAILABILITY: SCRANTON GILLETTE COMMUNICATIONS, INC., 380 NORTHWEST HIGHWAY, DES PLAINERS, IL 60016

IRIS ACCESSION NUMBER: EW0140013

PUBLICATION DATE: 86

TITLE: GROUNDWATER ENGINEERING.

PERSONAL AUTHOR: KASHEF, ABDEL-AZIZ ISMAIL

DESCRIPTOR: *ENGINEERING; *GROUNDWATER; GROUNDWATER CIRCULATION; HYDROLOGY; MANAGEMENT; SEEPAGE; SALTWATER INTRUSION; *WATER RESOURCES; *WATER SUPPLY; *WATER WELLS

DESCRIPTIVE NOTE: 512P. PRICE: $44.95

ABSTRACT: THIS PUBLICATION CONSIDERS MANY ASPECTS OF GROUNDWATER ENGINEERING INCLUDING GROUNDWATER CIRCULATION, SEEPAGE, WATER WELLS, SALTWATER INTRUSION, AND GROUNDWATER MANAGEMENT. CONTAINS FORMULAS, EXAMPLES AND SOLUTIONS TO PROBLEMS, AND AN EXTENSIVE BIBLIOGRAPHY.

AVAILABILITY: SCRANTON GILLETTE COMMUNICATIONS, INC. 380 NORTHWEST HWY., DES PLAINES, IL 60016

IRIS ACCESSION NUMBER: EW0140014

PUBLICATION DATE: 85

TITLE: CRC HANDBOOK OF MANAGEMENT OF RADIATION PROTECTION PROGRAMS.

PERSONAL AUTHOR: MILLER, KENNETH L., M.S.CH.P., ED.; AND OTHERS

DESCRIPTOR: *ACCIDENT PREVENTION; *EMERGENCY PROCEDURES; *MANAGEMENT; *RADIATION; *RADIATION PROTECTION PROGRAMS; *SAFETY; *PLANNING; *REGULATIONS; *TRANSPORTATION

DESCRIPTIVE NOTE: 536P. PRICE: $99.00, USA; $114.00, OUTSIDE USA.

ABSTRACT: THIS PUBLICATION PRESENTS A VARIETY OF INFORMATION ON MANAGEMENT OF RADIATION PROTECTION PROGRAMS. INFORMATION IS INCLUDED ON REGULATIONS, PLANNING, MANAGEMENT, TRANSPORTATION, COMMUNICATIONS, AND EMERGENCY PROCEDURES.

AVAILABILITY: CRC PRESS, INC., 2000 CORPORATE BLVD., N.W., BOCA RATON, FLORIDA 33431

IRIS ACCESSION NUMBER: EW0140015

PUBLICATION DATE: 86

TITLE: TREATMENT OF WASTEWATER FROM ELECTROPLATING, METAL FINISHING AND PRINTED CIRCUIT BOARD MANUFACTURING.

PERSONAL AUTHOR: KERRI, KENNETH D.

DESCRIPTOR: *ELECTROPLATING; *INDUSTRIAL WASTES; *METAL FINISHING; *METALS; *OPERATIONS (WASTEWATER); *MAINTENANCE; *TROUBLESHOOTING; *WASTEWATER TREATMENT; *WASTE DISPOSAL

DESCRIPTIVE NOTE: 200P. PRICE: $10.00

ABSTRACT: THIS OPERATOR TRAINING MANUAL WAS PREPARED FOR PERSONS TREATING METAL WASTESTREAMS. TOPICS INCLUDE THE NEED FOR TREATMENT, SOURCES OF METAL WASTESTREAMS, MATERIAL SAFETY DATA SHEETS (MSDSS), EMPLOYEE RIGHT TO KNOW LAWS, METHODS OF TREATMENT, SLUDGE TREATMENT AND DISPOSAL, OPERATION, MAINTENANCE, AND TROUBLESHOOTING. THE SECTION ON TREATMENT PROCESSES COVERS BATCH AND CONTINUOUS PROCESSES, NEUTRALIZATION, HYDROXIDE PRECIPITATION, COMPLEX METALS REMOVAL, REDUCTION OF HEXAVALENT CHROMIUM, CYANIDE OXIDATION, PRECIOUS METALS RECOVERY, OILY WASTE REMOVAL, AND CONTROL OF SOLVENTS AND TOXIC ORGANICS.

AVAILABILITY: HORNET FOUNDATION, OFFICE OF WATER PROGRAMS, CALIFORNIA STATE UNIVERSITY, SACRAMENTO, 6000 J ST., SACRAMENTO, CA 95819-2694

IRIS ACCESSION NUMBER: EW0140017

PUBLICATION DATE: 86

TITLE: THE SOLID WASTE HANDBOOK: A PRACTICAL GUIDE.

PERSONAL AUTHOR: ROBINSON, WILLIAM D., ED.

DESCRIPTOR: *COSTS; *HAZARDOUS MATERIALS; *HANDBOOKS; *LAND USE; *LEGISLATION; *MANAGEMENT; *REGULATIONS; *RECYCLING; *RESOURCE RECOVERY; *SOLID WASTES; *WASTE COLLECTION; *WASTE DISPOSAL

DESCRIPTIVE NOTE: 811P. PRICE: $74.95

ABSTRACT: THIS BOOK PROVIDES STATE-OF-THE-ART INFORMATION ON THE MANAGEMENT OF SOLID WASTES. INFORMATION IS PRESENTED

ON LEGISLATION AND INVOLVED AGENCIES; COMMUNITY RELATIONS AND DEALING WITH THE PUBLIC; FEASIBILITY STUDIES, PROCUREMENT, AND CONSTRUCTION MANAGEMENT; WASTE DISPOSAL/RESOURCE RECOVERY PLANT COSTS; ECONOMICS AND FINANCING; AND LEGAL ISSUES. OTHER CHAPTERS COVER COLLECTION AND TRANSFER OF SOLID WASTE, SOURCE SEPARATION AND RECYCLING, LAND DISPOSAL, RESOURCE RECOVERY, POLLUTION CONTROL, ENERGY RECOVERY, REFUSE DERIVED FUELS, BIOLOGICAL PROCESSES, HAZARDOUS SOLID WASTES, AND MUCH MORE. THERE ARE NUMEROUS CHARTS, GRAPHS, TABLES, AND OTHER ANCILLARY INFORMATION AS WELL AS MANY DRAWINGS, PHOTOGRAPHS, AND OTHER ILLUSTRATIONS.

AVAILABILITY: JOHN WILEY & SONS, INC., ONE WILEY DRIVE, SOMERSET, NJ 08873

IRIS ACCESSION NUMBER: EW0140018

PUBLICATION DATE: 86

TITLE: PESTICIDES AND GROUNDWATER QUALITY.

PERSONAL AUTHOR: HOLDEN, PATRICK W.

DESCRIPTOR: *CONTAMINATION; *AGRICULTURE; *GROUNDWATER; *GOVERNMENT ROLE; *MANAGEMENT; *PUBLIC HEALTH; *REGULATIONS; *TECHNOLOGY; *WATER QUALITY; *WATER RESOURCES; *WATER SUPPLY

DESCRIPTIVE NOTE: 124P. PRICE: $12.50

ABSTRACT: THIS BOOK ANALYZES THE NATURE AND SCOPE OF GROUNDWATER CONTAMINATION BY PESTICIDES IN CALIFORNIA, NEW YORK, WISCONSIN, AND FLORIDA. BASED ON QUANTITATIVE DATA AND PERSONAL VIEWS OF EXPERTS, THE WORK SUMMARIZES FEDERAL AGENCY AND INDUSTRY ACTIVITIES AND REVIEWS RELEVANT SCIENTIFIC, TECHNOLOGICAL, MANAGERIAL, AND REGULATORY CONTEXTS.

AVAILABILITY: NATIONAL ACADEMY PRESS, 2101 CONSTITUTION AVENUE, NW, WASHINGTON, D.C. 20418

IRIS ACCESSION NUMBER: EW0140019

PUBLICATION DATE: 86

TITLE: POLLUTION CONTRL AND CONSERVATION.

PERSONAL AUTHOR: KOVACS, MARGIT, ED.

DESCRIPTOR: *CONSERVATION; *DEVELOPMENT; *ENVIRONMENT; *ENVIRONMENTAL IMPACT; *NATURAL PRESERVATION; *POLLUTION CONTROL; *RESEARCH REPORTS; *WATER QUALITY; *WORLD PROBLEMS

DESCRIPTIVE NOTE: 398P. PRICE: $125.00

ABSTRACT: CONSIDERED ARE POLLUTION PROBLEMS ON AN INTERNATIONAL SCALE. IT GIVES A COMPREHENSIVE PICTURE OF A TOPICAL AND HIGHLY SIGNIFICANT AREA OF CURRENT RESEARCH, UNIFYING THE KNOWLEDGE AND EXPERIENCE OF A TEAM OF ACTIVE RESEARCHERS AND WORKERS IN POLLUTION CONTROL AND NATURE

PRESERVATION. A PROGNOSIS ON THE EFFECTS OF PLANNED WATERWAYS, POWER STATIONS, AND DAMS ON WATER QUALITY IS PROVIDED AS IS A 600-WORD GLOSSARY OF WIDELY USED ABBREVIATIONS AND TERMS IN THE POLLUTION CONTROL FIELD.

AVAILABILITY: HALSTEAD PRESS, A DIVISION OF JOHN WILEY & SONS, 605 THIRD AVENUE, NEW YORK, NY 10158

IRIS ACCESSION NUMBER: EW014020

PUBLICATION DATE: 85

TITLE: PROCEEDINGS OF THE 40TH INDUSTRIAL WASTE CONFERENCE, PURDUE UNIVERSITY.

DESCRIPTOR: *CONFERENCE PROCEEDINGS; *HAZARDOUS MATERIALS; *INDUSTRIAL WASTES; *INDUSTRY; *RESEARCH REPORTS; *TOXIC SUBSTANCES; *WASTE DISPOSAL; *WASTE TREATMENT; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 1032P. PRICE: $84.95

ABSTRACT: THIS WORK CONTAINS 94 OF THE TECHNICAL PAPERS PRESENTED DURING THE 3-DAY CONFERENCE IN WEST LAFORCE, IND. ALSO INCLUDED IN THIS VOLUME IS A COMPREHENSIVE 10-YEAR INDEX FOR CURRENT AND PREVIOUS VOLUMES. AMONG THE WIDE-RANGE OF TOPICS COVERED AT THE CONFERENCE: PAC ACTIVATED SLUDGE TREATMENT OF COKE PLANT WASTEWATER; REMOVAL OF CADMIUM AT HIGH AND LOW DOSAGES BY AN EXTENDED AERATION PROCESS; AND EMERGENCY STABILIZATION AND CLEANUP OF DIOXIN SITES.

AVAILABILITY: BUTTERWORTH PUBLISHERS, 80 MONTVALE AVENUE, STONEHAM, MA 02180

IRIS ACCESSION NUMBER: EW014021

PUBLICATION DATE: 86

TITLE: PESTICIDES AND GROUND WATER QUALITY: ISSUES AND PROBLEMS IN FOUR STATES.

PERSONAL AUTHOR: HOLDEN, PATRICK W.

DESCRIPTOR: *AGRICULTURE; *CONTAMINATION; *GROUNDWATER; *DRINKING WATER; *ISSUES; *PESTICIDES; *POLICIES; *PUBLIC HEALTH; *RESEARCH NEEDS; *STATUS; *TECHNOLOGY; *WATER TREATMENT; *WATER RESOURCES; *WATER SUPPLY

DESCRIPTIVE NOTE: 136P. PRICE: $12.50

ABSTRACT: PESTICIDES IN GROUNDWATER CAN CONTAMINATE DRINKING WATER AND THREATEN THE HEALTH OF COMMUNITIES. THIS BOOK USES A CASE-STUDY APPROACH TO DESCRIBE THE DISCOVERY OF THE PROBLEM IN FOUR MAJOR AGRICULTURAL STATES, TO SUMMARIZE THE MOST RECENT DATA ON THE PROBLEM, AND TO REVIEW THE STATUS OF THE PROBLEM FROM BOTH TECHNOLOGICAL AND POLICY PERSPECTIVES. ALSO ADDRESSED IS THE CONTROVERSIAL QUESTION OF WHAT LEVELS OF RESIDUES ARE ACCEPTABLE AND COSTS OF TREATING DRINKING WATER THAT IS CONTAMINATED.

AVAILABILITY: NATIONAL ACADEMY PRESS, 2101 CONSTITUTION AVENUE, NW, WASHINGTON, DC 20418

IRIS ACCESSION NUMBER: EW014022

PUBLICATION DATE: 86

TITLE: SAG PHENOMENA AND SEWER SAG DETECTOR.

PERSONAL AUTHOR: MARTIN, JOHN; ED; CHATTERJEE, SAMAR, ED.

DESCRIPTOR: *DESIGN; *CONSTRUCTION; *EQUIPMENT; *MAINTENANCE; *OPERATIONS (WASTEWATER); *SEWERS; *SEWAGE SAG; *SOILS; *WASTEWATER COLLECTION

DESCRIPTIVE NOTE: 54P. PRICE: $30.00

ABSTRACT: SEWER LINES THAT DIP AND SAG FROM THE CORRECT ALIGNMENT, WHETHER FROM POOR WORKMANSHIP OR DIFFICULT SOIL CONDITIONS, CAN CAUSE NUMEROUS PROBLEMS WITH THE LINES' EFFICIENCY AND CARRYING CAPACITY. THIS BOOK DISCUSSES THE PROBLEMS OF SAGGING LINES AND EXAMINES THE USE OF A "SEWER SAG DETECTOR" THAT WAS SUCCESSFULLY DEVELOPED AND USED AT THE SOUTH STICKNEY SANITARY DISTRICT IN BURBANK, ILLINOIS.

AVAILABILITY: SAFE FOUNDATION PUBLISHING CO., 10950C URSULA DRIVE, WILLOW SPRINGS, IL 60480

IRIS ACCESSION NUMBER: EW014023

PUBLICATION DATE: 86

TITLE: HAZARDOUS WASTES FROM HOMES.

PERSONAL AUTHOR: LORD, JOHN

DESCRIPTOR: *ACCIDENT PREVENTION; *HAZARDOUS WASTES; *HOMES; *PUBLIC HEALTH; *SAFETY; *POLLUTION CONTROL; *SOLID WASTES; *TOXIC SUBSTANCES; *WASTE DISPOSAL; *WASTEWATER COLLECTION

DESCRIPTIVE NOTE: 36P. PRICE: $4.25. QUANTITY DISCOUNTS AVAILABLE.

ABSTRACT: BACKGROUND INFORMATION IS PROVIDED ON THE DEVELOPMENT OF DISPOSAL SYSTEMS (PARTICULARLY REFUSE COLLECTION AND SEWERAGE SYSTEMS) AND A BRIEF HISTORY OF HOW THE INCREASING USE OF CHEMICALS HAS ENHANCED OUR LIVES, BUT ALSO CREATED NEW PROBLEMS. THE TOXICITY OF VARIOUS SUBSTANCES IS DISCUSSED AS WELL AS THE WAYS TOXIC MATERIALS MAKE THEIR WAY INTO THE ENVIRONMENT. IMPORTANT INFORMATION IS PROVIDED ON WAYS THE HOMEOWNER CAN HELP REDUCE THE AMOUNT OF HOUSEHOLD HAZARDOUS SUBSTANCES AND THE PROPER WAYS THESE MATERIALS CAN BE DISPOSED. AN INDEPTH CHART IS PROVIDED THAT LISTS MANY HOUSEHOLD PRODUCTS AND THE PROPER MEANS OF DISPOSAL (TRASH, SEWERS, RECYCLING, HAZARDOUS WASTE COLLECTION PROGRAM).

AVAILABILITY: ENTERPRISE FOR EDUCATION, 1320-A SANTA MONICA MALL, SUITE 205, SANTA MONICA, CA 90401

IRIS ACCESSION NUMBER: EW0140024
PUBLICATION DATE: 86

TITLE: TREATMENT EFFICIENCY AND ENERGY USE IN ACTIVATED SLUDGE PROCESS CONTROL

PERSONAL AUTHOR: ARTHUR, ROBERT M., ED.

DESCRIPTOR: *ACTIVATED SLUDGE; *CONFERENCE PROCEEDINGS; *EFFLUENT; *ENERGY CONSERVATION; *PROCESS CONTROLS; *OPERATIONS (WASTEWATER); *PERFORMANCE EVALUATION; *SLUDGE; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 184P. PRICE: $39.95

ABSTRACT: THIS BOOK PRESENTS THE PAPERS OF THE THIRD CONFERENCE ON ACTIVATED SLUDGE PROCESS CONTROL WITH THE INTENT OF IMPROVING EFFLUENT QUALITY AND ENERGY CONSERVATION THROUGH PROCESS CONTROL. ALSO INCLUDED IS THE QUESTION AND ANSWER SESSION THAT WAS HELD AT THE END OF EACH PRESENTATION AND THE TRANSCRIPT OF TWO ROUND TABLE DISCUSSIONS. THERE ARE LOSTS OF REFERENCES AND ILLUSTRATIONS THROUGHOUT.

AVAILABILITY: BUTTERWORTH PUBLISHERS, 80 MONTVALE AVENUE, STONEHAM, MA 02180

IRIS ACCESSION NUMBER: EW0140025

PUBLICATION DATE: 86

TITLE: THE ENVIRONMENT, PUBLIC HEALTH, AND HUMAN ECOLOGY: CONSIDERATIONS FOR ECONOMIC DEVELOPMENT.

PERSONAL AUTHOR: LEE, JAMES A.

DESCRIPTOR: *AGRICULTURAL DEVELOPMENT; *DEVELOPMENT; *ECONOMIC DEVELOPMENT; *ENVIRONMENT; *ENVIRONMENTAL IMPACT; *HUMAN ECOLOGY; *INDUSTRIAL DEVELOPMENT; *PLANNING; *POLICIES; *PUBLIC HEALTH; *POLLUTION CONTROL; *WORLD PROBLEMS

DESCRIPTIVE NOTE: 288P. PRICE: $14.95

ABSTRACT: THIS HANDBOOK PROVIDES INFORMATION ON THE PROBLEMS OF DEVELOPMENT AND HOW ADVANCED PLANNING CAN AVOID OR MITIGATE MOST ENVIRONMENTAL PROBLEMS. SOME OF THE CHAPTERS INCLUDE ENVIRONMENTAL POLICIES OF THE WORLD BANK, ECONOMIC DEVELOPMENT AND POLLUTION CONTROL, HEALTH CONSIDERATIONS, AGRICULTURAL AND INDUSTRIAL DEVELOPMENT, PROJECT OPERATIONS, AND ENERGY DEVELOPMENT. TWO APPENDICES PROVIDE A CHECKLIST OF ENVIRONMENTAL CONSIDERATIONS FOR PROJECT DEVELOPMENT AND INFORMATION AND DATA RESOURCES. AN EXTENSIVE BIBLIOGRAPHY IS INCLUDED.

AVAILABILITY: THE JOHN HOPKINS UNIVERSITY PRESS, 701 WEST 40TH STREET, SUITE 275, BALTIMORE, MD 21211

IRIS ACCESSION NUMBER: EW0140026
PUBLICATION DATE: 86

TITLE: MARINE POLLUTION.

PERSONAL AUTHOR: CLARK, R. B.

DESCRIPTOR: *CONTAMINATION; *ENVIRONMENT; *ENVIRONMENTAL IMPACT; *MARINE ENVIRONMENT; *POLLUTION; *POLLUTION CONTROL; *WASTE DISPOSAL; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 215P. PRICE: $17.95

ABSTRACT: THIS BOOK, WHICH IS A PRODUCT OF AN INTRODUCTORY COURSE ON MARINE POLLUTION, ATTEMPTS TO MEASURE THE IMPACT OF MARINE POLLUTION BY EVALUATING WHAT KINDS OF WASTE REACH THE SEA, IN WHAT QUANTITIES, WHAT HAPPENS TO THEM IN THE SEA, WHAT EFFECTS THEY HAVE ON MARINE LIFE, AND ULTIMATELY WHAT THREATS THEY POSE DIRECTLY OR INDIRECTLY TO HUMAN LIFE.

AVAILABILITY: OXFORD UNIVERSITY PRESS, 200 MADISON AVE., NEW YORK, NY 10016

IRIS ACCESSION NUMBER: EW0140027

PUBLICATION DATE: 86

TITLE: 1986 HAZARDOUS MATERIAL SPILLS CONFERENCE PROCEEDINGS.

DESCRIPTOR: *ACCIDENT PREVENTION; *CLEANUP; *HAZARDOUS MATERIALS; *CONFERENCE PROCEEDINGS; *POLLUTION CONTROL; *SPILLS; *MONITORING; *RISK ANALYSIS

DESCRIPTIVE NOTE: 565P. PRICE: $64.00

ABSTRACT: THIS PUBLICATION INCLUDES 88 PAPERS THAT DOCUMENT "FRONT-LINE" EXPERIENCE ON: CONTINGENCY PLANNING; PERSONNEL SAFETY AND TRAINING; CLEANUP; GROUNDWATER CONTAMINATION AND UNDERGROUND STORAGE TANKS; REPORTABLE QUANTITIES AND RISK ANALYSIS; MEDIA RELATIONS; DETECTION AND MONITORING; DATA SUPPORT SYSTEMS; GOVERNMENT PROGRAMS; MOVEMENT/MODELING; AND ONSITE INCINERATION.

AVAILABILITY: GOVERNMENT INSTITUTES, INC., DEPT. TS, 966 HUNGERFORD DRIVE, #24, ROCKVILLE, MD 20850

IRIS ACCESSION NUMBER: EW0140028

PUBLICATION DATE: 86

TITLE: NATIONAL DIRECTORY OF ENERGY SOFTWARE FOR MICROCOMPUTERS.

DESCRIPTOR: *COMPUTER APPLICATIONS; *COMPUTER SOFTWARE; *ENERGY USE; *ENERGY; *ENERGY CONSERVATION; *DIRECTORIES; CONSERVATION; *COST REDUCTION; *MANAGEMENT; HEATING; AIR CONDITIONING; LIGHTING

DESCRIPTIVE NOTE: 126P. PRICE: $15.00. QUANTITY DISCUNTS AVAILABLE.

ABSTRACT: THIS DIRECTORY IDENTIFIES ENERGY SOFTWARE FOR REDUCING COSTS. THE BROAD CATEGORIES OF SOFTWARE INCLUDE THERMAL PERFORMANCE/SOLAR GAIN; HEATING, VENTILATION, AND AIR CONDITIONING, AND LIGHTING SYSTEMS ANALYSIS; ENERGY ACCOUNTING; AND MISCELLANEOUS (STREET LIGHTING, FLEET MANAGEMENT, ECONOMICS, ETC.). THE LISTINGS INCLUDE PROGRAM TITLE, DESCRIPTION, TYPE OF COMPATIBLE MICROCOMPUTERS, MINIMUM HARDWARE REQUIREMENTS, LANGUAGE, RESTRICTIONS, COSTS, AND CONTACT PERSON.

AVAILABILITY: BUREAU OF GOVERNMENTAL RESEARCH SERVICE, UNIVERSITY OF OREGON, P.O. BOX 3177, EUGENE, OR 97403

IRIS ACCESSION NUMBER: EW014029

PUBLICATION DATE: 86

TITLE: NATURAL RADIOACTIVITY IN WATER SUPPLIES.

PERSONAL AUTHOR: HORNER, JACK K.

DESCRIPTOR: ATOMIC THEORY; *BIOLOGY EFFECTS; *LEGAL ASPECTS; *PUBLIC HEALTH; *NATURAL RADIOACTIVITY; *RADIOACTIVITY; *WATER SUPPLY; *WATER QUALITY; *WATER RESOURCES

DESCRIPTIVE NOTE: 371P. PRICE: $29.50

ABSTRACT: THE MATERIAL PRESENTED INCLUDES BASIC ATOMIC THEORY, INTRODUCTION TO NATURAL RADIOACTIVITY, MECHANICS OF EXPOSURE TO IONIZING RADIATION, BIOLOGICAL EFFECTS, VALUES AND RISK, LEGAL ASPECTS, AND A CASE STUDY. THE TEXT IS ILLUSTRATED, REFERENCED, AND CONTAINS NINE APPENDIXES.

AVAILABILITY: WESTVIEW PRESS, 5500 CENTRAL AVENUE, BOULDER, CO 80301

IRIS ACCESSION NUMBER: EW014031

PUBLICATION DATE: 86

TITLE: INSTRUMENTATION FOR COMPLEX FLUID FLOWS.

PERSONAL AUTHOR: CHEREMISINOFF, NICHOLAS P.

DESCRIPTOR: *LABORATORY TECHNIQUES; *FLUID FLOW; *INSTRUMENTATION; *MEASUREMENT

DESCRIPTIVE NOTE: 374P. PRICE: $49.00

ABSTRACT: USING HUNDREDS OF EQUATIONS AND DIAGRAMS, THE BOOK CAREFULLY DEPICTS EXPERIMENTAL METHODS FOR EFFICIENTLY ANALYZING TURBULENCE, INTENSITY, FLOW REGIME, PHASE INTERACTION, HOLDUP, ENTRAINMENT, AND INTERFACIAL PHENOMENA. EQUIPMENT SET-UP AND INSTRUMENTS ARE ILLUSTRATED, AND PRACTICAL APPROACHES TO DATA INTERPRETATION ARE GIVEN. THE BOOK PROVIDES A CONNECTION BETWEEN THE PHYSICS OF A VARIETY OF FLOW PHENOMENA AND INDUSTRIAL APPLICATION.

AVAILABILITY: TECHNOMIC PUBLISHING COMPANY, INC., 851 NEW HOLLAND AVE., BOX 3535, LANCASTER, PA 17604

IRIS ACCESSION NUMBER: EW014032

PUBLICATION DATE: 85

TITLE: HANDBOOK OF REACTIVE CHEMICAL HAZARDOUS: AN INDEXED GUIDE TO PUBLISHED DATA, 3RD EDITION.

PERSONAL AUTHOR: BRETHERICK, L.

DESCRIPTOR: *ACCIDENT PREVENTION; *CHEMICALS; *CHEMICAL HAZARDS; *HANDBOOKS; *HAZARDOUS MATERIALS; *INDEXES; *SAFETY

DESCRIPTIVE NOTE: 1878P. PRICE: $99.95

ABSTRACT: THIS VOLUME UPDATES THE LITERATURE THROUGH DEC., 1984. INFORMATION AND REFERENCES FOR OVER 9,000 ELEMENTS AND COMPOUNDS ARE PROVIDED. EACH CHEMICAL IS CLASSIFIED ON THE BASIS OF SIMILARITY IN STRUCTURE OR REACTIVITY, AND EACH GROUP OF CHEMICALS IS REFERENCED IN A SEPARATE SECTION BY CHEMICAL GROUPS AND TOPICS.

AVAILABILITY: BUTTERWORTH PUBLISHERS, 80 MONTVALE AVE., STONEHAM, MA 02180

IRIS ACCESSION NUMBER: EW014033

PUBLICATION DATE: 86

TITLE: GEOREF THESAURUS AND GUIDE TO INDEXING, 4TH EDITION.

PERSONAL AUTHOR: PALMER, CRYSTAL S., ED.

DESCRIPTOR: *GEOGRAPHY; *GEOREF; *GEOLOGY; *INDEXING; *GEOLOGICAL PROCESSES; *GELOGICAL CONCEPTS; *DATABASES; *THESAURI; *VOCABULARY

DESCRIPTIVE NOTE: 510P. PRICE: $25.00

ABSTRACT: THE FOURTH EDITION OF THE "GEOREF THESAURUS AND GUIDE TO INDEXING" INCLUDES A THESAURUS SECTION WITH SOME 15,000 TERMS AND CROSS-REFERENCES SHOWING HOW RELATED TERMS ARE USED IN THE GEOREF (GEOLOGICAL REFERENCES) DATABASE. OVER 1,000 NEW TERMS INCLUDE GEOGRAPHIC PLACE NAMES, SYSTEMATIC TERMS (ROCK, FOSSILS, MINERALS, ETC.) AND NON-SYSTEMATIC TERMS (GEOLOGICAL FEATURES, PROCESSES, PROPERTIES, MATERIALS, METHODS, TECHNIQUES, ETC.). THE LARGEST GROUP OF NEW TERMS ARE U.S. COUNTY NAMES, ROCK FORMATION NAMES (MOSTLY NORTH AMERICAN), GEOPHYSICAL METHODS AND TECHNIQUES, AND GEOGRAPHIC TERMS. THE GUIDE TO INDEXING SECTION CONSISTS OF 16 STRUCTURED LISTS OF TERMS AND NOTES THAT HELP SEARCHERS AND GEOREF INDEXERS FOLLOW THE GEOREF INDEXING SCHEME AND MAINTAIN VOCABULARY CONTROL. NEW TO THIS EDITION IS LIST P, FIELDS OF INTEREST.

AVAILABILITY: AMERICAN GEOLOGICAL INSTITUTE, 4220 KING

STREET, ALEXANDRIA, VA 22302

IRIS ACCESSION NUMBER: EW014034

PUBLICATION DATE: 86

TITLE: HANDBOOK OF CHLORINATION.

PERSONAL AUTHOR: WHITE, GEO. GLIFFORD

DESCRIPTOR: *CHLORINE; *CHLORINE DIOXIDE; *DISINFECTION; *DRINKING WATER; *EQUIPMENT; *FACILITIES; *LABORATORY PROCEDURES; *MAINTENANCE; *OPERATIONS (WATER); *OPERATIONS (WASTEWATER); *WATER TREATMENT; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 1070P. PRICE: $89.50

ABSTRACT: INCLUDED IN THIS PUBLICATION ARE A HISTORY OF CHLORINE'S DISCOVERY AND USE IN WATER TREATMENT, HYPOCHLORINATION, ON-SITE GENERATION OF CHLORINE, DETERMINING CHLORINE RESIDUALS, CHLORINATION OF POTABLE WATER AND WASTEWATER, DISINFECTION, FACILITY DESIGN, DECHLORINATION, OPERATION AND MAINTENANCE OF EQUIPMENT, CHLORINE DIOXIDE, AND MUCH MORE. THIS IS THE SECOND EDITION OF THIS PUBLICATION.

AVAILABILITY: VAN NOSTRAND REINHOLD, 115 FIFTH AVENUE, NEW YORK, NY 10003

IRIS ACCESSION NUMBER: EW014035

PUBLICATION DATE: 86

TITLE: CONTAMINATED SOIL.

PERSONAL AUTHOR: ASSINK, J.W., ED.; VAN DEN BRINK, W. J., ED.

DESCRIPTOR: *CONFERENCE PROCEEDINGS; *CONTAMINATION; *ENVIRONMENT; *ENVIRONMENTAL IMPACT; *GOVERNMENT ROLE; *PUBLIC HEALTH; *SOILS; *PLANNING; *SITE INVESTIGATION; *WASTE DISPOSAL; *POLLUTION CONTROL

DESCRIPTIVE NOTE: 923P. PRICE: $197.50

ABSTRACT: THIS WORK CONTAINS THE PROCEEDINGS OF THE FIRST INTERNATIONAL TNO CONFERENCE ON CONTAMINATED SOIL. THE NETHERLANDS ORGANIZATION FOR APPLIED SCIENTIFIC RESEARCH (TNO) ORGANIZED THE CONFERENCE IN COOPERATION WITH THE NETHERLANDS MINISTRY OF HOUSING, PHYSICAL PLANNING AND THE ENVIRONMENT. TOPICS COVERED DURING THE CONFERENCE AND CONTAINED IN THE PROCEEDINGS INCLUDE BEHAVIOR OF CONTAMINANTS IN SOIL, IMPACTS ON PUBLIC HEALTH AND THE ENVIRONMENT, ROLE OF GOVERNMENTS AND OTHER AUTHORITIES AND SITE INVESTIGATION.

AVAILABILITY: KLUWER ACADEMIC PUBLISHERS GROUP, BOX 989, 3300 AZ DORDRECHT, THE NETHERLANDS

IRIS ACCESSION NUMBER: EW014036
PUBLICATION DATE: 86

TITLE: ENVIRONMENTAL ETHICS FOR ENGINEERS.

PERSONAL AUTHOR: GUNN, ALASTAIR S., VESILAND, P. AARNE

DESCRIPTOR: *CASE STUDIES; *ENVIRONMENTAL IMPACT; *ENVIRONMENT; *ENGINEERS; *ETHICS; *READINGS; *VALUES

DESCRIPTIVE NOTE: 153P. PRICE: HARDCOVER, $18.95. SOFTCOVER, $10.95

ABSTRACT: THIS BOOK APPLIES NOT ONLY TO INTERACTIONS OF ENGINEERS WITH CLIENTS AND EMPLOYERS, BUT INTERACTIONS BETWEEN ENGINEERS AND NATURE--THAT IS, THE EFFECTS OF THEIR WORK ON THE ENVIRONMENT. THE BOOK IS DIVIDED INTO BASICS OF ETHICAL THOUGHT AS APPLIED TO ENVIRONMENTAL PROBLEMS AND CASE STUDIES AND READINGS IN PROFESSIONAL ENVIRONMENTAL ETHICS, WHICH INCLUDES BOTH NEW AND CLASSIC READINGS.

AVAILABILITY: LEWIS PUBLISHERS, INC., 121 SOUTH MAIN STREET, P.O. DRAWER 519, CHELSEA, MI 48118

IRIS ACCESSION NUMBER: EW014037

PUBLICATION DATE: 86

TITLE: DEVELOPING WORLD WATER.

PERSONAL AUTHOR: PICKFORD, JOHN; ED.

DESCRIPTOR: *AGRICULTURE; *DEVELOPING COUNTRIES; *GROUNDWATER; *MANAGEMENT; *SANITATION; *WASTEWATER TREATMENT; *WATER SUPPLY; *WATER QUALITY; *WORLD PROBLEMS

DESCRIPTIVE NOTE: 552P. PRICE: $15.00

ABSTRACT: THIS ILLUSTRATIVE WORK PRESENTS PROBLEMS AND SOLUTIONS TO WATER SUPPLY AND WASTEWATER TREATMENT PROBLEMS IN DEVELOPING COUNTRIES OF THE WORLD. AREAS GIVEN SPECIFIC COVERAGE IN THE BOOK INCLUDE GROUNDWATER, SURFACE WATER, TRANSMISSION AND DISTRIBUTION, AGRICULTURE, AND MANAGEMENT.

AVAILABILITY: GROSVENOR PRESS INTERNATIONAL LTD., 50 GROSVENOR STREET, LONDON W1X 9FH ENGLAND

IRIS ACCESSION NUMBER: EW014038

PUBLICATION DATE: NOV 86

TITLE: RX FOR CLEAN WATER.

PERSONAL AUTHOR: FISHER, KAREN

DESCRIPTOR: *CONTAMINATION; *GROUNDWATER; *POLICIES; *NATURAL RESOURCES; *WATER RESOURCES; *WATER TREATMENT

DESCRIPTIVE NOTE: 32-41P.

ABSTRACT: GROUNDWATER CONTAMINATION IS BECOMING A MAJOR NATIONAL PROBLEM. DESCRIBED ARE PROBLEMS, CONDITIONS THAT CREATE PROBLEMS, TREATMENT OPTIONS, AND POLICIES FOR REDUCING PROBLEMS.

AVAILABILITY: AMERICAN CITY AND COUNTY; V101 N11

IRIS ACCESSION NUMBER: EW014039

PUBLICATION DATE: NOV 86

TITLE: WATER SYSTEMS STANDARDS SURVEY.

PERSONAL AUTHOR: RHOADES, STEPHEN D.

DESCRIPTOR: *COSTS; *EQUIPMENT; *OPERATIONS (WATER); *STANDARDS; *SURVEYS; *PIPES; *WATER TREATMENT; *WATER DISTRIBUTION

DESCRIPTIVE NOTE: 30-34P.

ABSTRACT: REPORTED ARE THE RESULTS OF AN INFORMAL SURVEY OF 24 CITIES ABOUT LOCAL WATER SYSTEM STANDARDS.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION; V78 N11

IRIS ACCESSION NUMBER: EW014040

PUBLICATION DATE: NOV 86

TITLE: RESTORING THE FLOW OF A FINISHED WATER PIPELINE.

PERSONAL AUTHOR: FITCH, DAVID E.; MCCOLLUM, GARY R.

DESCRIPTOR: *ALUM; *CLEANING TECHNOLOGY; *FLOW RESTRICTION; *OPERATIONS (WATER); *PIPES; *MAINTENANCE; *WATER PIPES; *WATER DISTRIBUTION; *WATER FLOW

DESCRIPTIVE NOTE: 35-38P.

ABSTRACT: DESCRIBED IS A CLEANING OPERATION TO RESTORE FLOW IN A WATER PIPELINE.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION; V78 N11

IRIS ACCESSION NUMBER: EW014041

PUBLICATION DATE: NOV 86

TITLE: THE ECONOMICS OF REMOTE METER READING.

PERSONAL AUTHOR: SHIERRY, ROBERT S.

DESCRIPTOR: *COSTS; *ECONOMICS; *ILLINOIS; *METERS; *REMOTE METER READING; *WATER METERS

DESCRIPTIVE NOTE: 44-46P.

ABSTRACT: DISCUSSED ARE THE ECONOMICS OF REMOTE METER READING OF WATER METERS IN AN ILLINOIS COMMUNITY.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION; V78 N11

IRIS ACCESSION NUMBER: EW014042

PUBLICATION DATE: NOV 86

TITLE: OZONATION: AN ECONOMIC CHOICE FOR WATER TREATMENT

PERSONAL AUTHOR: WENG, CHENG-NAN; AND OTHERS

DESCRIPTOR: *COSTS; *DISINFECTION; *ECONOMICS; *NEW JERSEY; *OPERATIONS (WATER); *OZONE; *WATER TREATMENT

DESCRIPTIVE NOTE: 83-89P.

ABSTRACT: DESCRIBED ARE PROCEDURES FOR USING OZONE FOR WATER TREATMENT BY A NEW JERSEY WATER COMPANY.

AVAILABILITY: AMERICAN WATER WORKS ASSOCOATION; V78 N11

IRIS ACCESSION NUMBER: EW014058

PUBLICATION DATE: NOV 86

TITLE: ADVANCE PLANNING SMOOTHS TREATMENT PLANT EXPANSION.

PERSONAL AUTHOR: SHEA, T. G.; HOCKENBURY, M. R.

DESCRIPTOR: *DESIGN; *CONSTRUCTION; *ENGINEERING; *FACILITIES; *FACILITY EXPANSION; *PLANNING; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 45-47P.

ABSTRACT: DESCRIBED ARE THE PLANNING DETAILS FOR THE EXPANSION AND UPGRADING OF AN OPERATIONAL WASTEWATER TREATMENT PLANT IN VIRGINIA.

AVAILABILITY: PUBLIC WORKS; V117 N11

IRIS ACCESSION NUMBER: EW014059

PUBLICATION DATE: NOV 86

TITLE: FACING MANDATED RAW SLUDGE DISPOSAL.

PERSONAL AUTHOR: NICOLAI, BRUNO

DESCRIPTOR: *CONNECTICUT; *CONSTRUCTION; *FACILITY MODIFICATION; *OPERATIONS (WASTEWATER); *RAW SLUDGE; *SLUDGE DISPOSAL; *SLUDGE HANDLING; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 62-63P.

ABSTRACT: DESCRIBED ARE SOME EXPERIENCES OF A CONNECTICUT

WASTEWATER TREATMENT STAFF HANDLING RAW SLUDGE DURING A MODIFICATION OF THEIR SLUDGE DURING MODIFICATION OF THEIR SLUDGE DIGESTERS.

AVAILABILITY: PUBLIC WORKS; V117 N11

IRIS ACCESSION NUMBER: EW014060

PUBLICATION DATE: 86

TITLE: CLEAN WATER ACT PERMIT GUIDANCE MANUAL.

PERSONAL AUTHOR: FRYE, RUSSELL S.

DESCRIPTOR: *CLEAN WATER ACT; *COMPLIANCE; *GUIDANCE MANUALS; *NPDES; *PERMITS; *REGULATIONS; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 644P. PRICE: $125.00

ABSTRACT: THIS GUIDANCE MANUAL PROVIDES COMPREHENSIVE INFORMATION FOR OBTAINING OR RENEWING NATIONAL POLLUTANT DISCHARGE ELIMINATION PERMITTING PROGRAM PERMITS FOR DIRECT DISCHARGE OF WATER POLLUTANTS TO SURFACE WATERS. IT CONTAINS AN OVERVIEW OF THE NPDES PERMITTING PROGRAM, ADDRESSES WHAT IS IN A PERMIT, OFFERS PROCEDURES FOR OBTAINING, MODIFYING, AND TERMINATING NPDES PERMITS. THE MANUAL INCLUDES APPENDICES, A SUBJECT MATTER INDEX, AND A GLOSSARY.

AVAILABILITY: EXECUTIVE ENTERPRISES PUBLICATION CO., INC., 22 WEST 21ST STREET, NEW YORK, NY 10010-6904

IRIS ACCESSION NUMBER: EW014061

PUBLICATION DATE: 86

TITLE: ELEMENTS OF TOXICOLOGY AND CHEMICAL RISK ASSESSMENT.

DESCRIPTOR: *CHEMICALS; *ENVIRONMENTAL HEALTH; *MANAGEMENT; *PUBLIC HEALTH; *REGULATIONS; *RISK ASSESSMENT; *TOXICOLOGY

DESCRIPTIVE NOTE: 57P. PRICE: $30.00

ABSTRACT: THIS BOOK PROVIDES USEFUL GUIDANCE IN UNDERSTANDING THE FUNDAMENTALS OF TOXICOLOGY AND THE CONCEPTS OF CHEMICAL RISK ASSESSMENT. THE HANDBOOK IS WRITTEN IN NONTECHNICAL LANGUAGE AND ILLUSTRATED WITH TABLES AND CHARTS. SUBJECTS INCLUDE THE BACKGROUND OF THE GROWTH OF ENVIRONMENTAL HEALTH REGULATION AND THE ROLE OF RISK ASSESSMENT BASIC DEFINITION OF RISK, THE TWO PRINCIPAL SOURCES OF TOXICITY DATA--EPIDEMIOLOGY STUDIES AND ANIMAL TESTS, AND THE METHODOLOGIES OF RISK ASSESSMENT AND ITS ROLE IN RISK MANAGEMENT.

AVAILABILITY: ENVIRON CORPORATION, 1000 POTOMAC STREET, NW, WASHINGTON, DC 20007

IRIS ACCESSION NUMBER: EW014062

TITLE: ENVIRONMENTAL ETHICS FOR ENGINEERS.

PERSONAL AUTHOR: GUNN, ALASTAIR S.; VESILIND, P. AARNE

DESCRIPTOR: *CASE STUDIES; *ENGINEERING; *ENVIRONMENT; *ENVIRONMENTAL ETHICS; *ETHICS

DESCRIPTIVE NOTE: 153P. PRICE: $18.95 HARDCOVER, $13.95 SOFTCOVER.

ABSTRACT: THE FIRST PART OF THIS BOOK PRESENTS THE FUNDAMENTALS OF ETHICS AS IT RELATES TO ENGINEERING PRACTICE AND THE PROFESSION. PART 2 PRESENTS READINGS AND CASE STUDIES. THE APPENDIX CONTAINS THE CODE OF ETHICS OF THE AMERICAN SOCIETY OF CIVIL ENGINEERS AND A PRIMER ON ETHICAL THEORIES.

AVAILABILITY: LEWIS PUBLISHERS, INC., 121 SOUTH MAIN STREET, P.O. DRAWER 519, CHELSEA, MI 48118

IRIS ACCESSION NUMBER: EW014063

TITLE: AN ANNOTATED BIBLIOGRAPHY OF LOCAL GROUNDWATER MANAGEMENT PUBLICATIONS.

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; *BIBLIOGRAPHIES; *GROUNDWATER; *MANAGEMENT; *WATER RESOURCES; *WATER SUPPLY

DESCRIPTIVE NOTE: PRICE: $.75
ABSTRACT: THIS PUBLICATION OFFERS INFORMATION ON LOCAL PLANNING GUIDES AND RELATED MATERIALS FROM ACROSS THE UNITED STATES. INCLUDED IN THE BIBLIOGRAPHY ARE ORDINANCES, CONFERENCE PAPERS AND JOURNAL ARTICLES, GROUNDWATER PRIMERS, AND INFORMATION BULLETINS.

AVAILABILITY: MAP AND PUBLICATIONS SALES OFFICE, WISCONSIN GEOLOGICAL & NATURAL HISTORY SURVEY, UNIVERSITY OF WISCONSIN-EXTENSION, 3817 MINERAL POINT RD., MADISON, WI 53705

IRIS ACCESSION NUMBER: EW014064

PUBLICATION DATE: 86

TITLE: ANAEROBIC DIGESTION: PRINCIPLES AND PRACTICES FOR BIOGAS SYSTEMS.

PERSONAL AUTHOR: GUNNERSON, CHARLES G.; STUCKEY, DAVID C.

DESCRIPTOR: *ANAEROBIC DIGESTION; *ANAEROBIC DIGESTERS; *BIOGAS; *ENERGY SOURCES; *RECYCLING; *RESOURCE RECOVERY; *RESEARCH; *TECHNOLOGY

DESCRIPTIVE NOTE: 154P. PRICE: $8.00

ABSTRACT: THIS REPORT IS PART OF A GLOBAL RESEARCH, DEVELOPMENT, AND DEMONSTRATION EFFORT OF THE UNITED NATIONS

DEVELOPMENT PROGRAMME AND THE WORLD BANK. IT EXPLORES THE HISTORY, TECHNOLOGY, AND APPLICATIONS OF ANAEROBIC DIGESTION. THIS REPORT SUMMARIZES THE CURRENT AND POTENTIAL STATUS AND PRACTICE OF ANAEROBIC DIGESTION IN DEVELOPING COUNTRIES AND PROVIDES AN OVERVIEW OF THE SUBJECT PLUS PRACTICAL DATA FOR BUILDING AN ANAEROBIC DIGESTER.

AVAILABILITY: THE WORLD BANK, BOX 37525, WASHINGTON, DC 20013

IRIS ACCESSION NUMBER: EW014065

PUBLICATION DATE: 86

TITLE: WASTEWATER IRRIGATION IN DEVELOPING COUNTRIES.

PERSONAL AUTHOR: SHUVAL, HILLEL I.

DESCRIPTOR: *AGRICULTURE; *DEVELOPING COUNTRIES; *ECONOMICS; *IRRIGATION; *PUBLIC HEALTH; *OPERATIONS (WASTEWATER); *RESOURCE RECOVERY; *TECHNOLOGY; *WASTEWATER REUSE; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 325P. PRICE: $20.00

ABSTRACT: THIS IS THE SIXTH IN A SERIES OF REPORTS BEING PREPARED BY THE RESOURCE RECOVERY PROJECT. THIS REPORT SUMMARIZES INFORMATION ON PRACTICES OF WASTEWATER REUSE FOR AGRICULTURE IN DEVELOPING COUNTRIES AROUND THE WORLD AND REVIEWS THE PUBLIC HEALTH AND TECHNOLOGICAL ASPECTS OF IRRIGATION WITH WASTEWATER. IT EVALUATES THE POTENTIAL HEALTH EFFECTS FROM SUCH REUSE AND PROPOSES EFFECTIVE AND ECONOMIC METHODS OF CONTROL THAT ARE PARTICULARLY SUITED TO DEVELOPING COUNTRIES.

AVAILABILITY: THE WORLD BANK, PUBLICATIONS DEPARTMENT, BOX 37525, WASHINGTON, DC 20013

IRIS ACCESSION NUMBER: EW014066

PUBLICATION DATE: 86

TITLE: URBAN WATER INFRASTRUCTURE: PLANNING, MANAGEMENT, AND OPERATIONS.

PERSONAL AUTHOR: GRIGG, NEIL S.

DESCRIPTOR: *MANAGEMENT; *OPERATIONS (WATER); *OPERATIONS (WASTEWATER); *SEWERS; *PLANNING; *STORMWATER; *URBAN AREAS; *WASTEWATER TREATMENT; *WATER TREATMENT; *WATER SUPPLY; *WASTEWATER COLLECTION

DESCRIPTIVE NOTE: 328P. PRICE: $39.95

ABSTRACT: THIS BOOK DISCUSSES THE FACTORS THAT LEAD TO EFFECTIVE MANAGEMENT OF WATER SYSTEMS IN URBAN AREAS. THESE INCLUDE WATER SUPPLY, WASTEWATER, AND STORMWATER. TOPICS COVERED INCLUDE STORMWATER AND COMBINED SEWER SYSTEMS, COMPUTER-BASED DECISION SUPPORT SYSTEMS, AND FUTURE ISSUES IN URBAN WATER MANAGEMENT.

AVAILABILITY: JOHN WILEY & SONS, ONE WILEY DRIVE, SOMERSET, NJ 08873

IRIS ACCESSION NUMBER: EW014067

PUBLICATION DATE: 86

TITLE: ULTRAFILTRATION HANDBOOK.

PERSONAL AUTHOR: CHERYAN, MUNIR

DESCRIPTOR: *CHEMICAL PROCESSING; *FILTRATION; *HANDBOOKS; *BIOTECHNOLOGY; *EQUIPMENT; *TECHNOLOGY; *ULTRAFILTRATION; *WASTEWATER TREATMENT; *WATER TREATMENT

DESCRIPTIVE NOTE: 369P. PRICE: $65.00

ABSTRACT: THIS BOOK EXPLORES THE ENTIRE RANGE OF FILTRATION THEORY AND PROCESSES INCLUDING MEMBRANE CHEMISTRY, MODELING, REPRESENTATIVE EQUIPMENT, SYSTEM DESIGN, AND TROUBLESHOOTING. IT EXPLAINS HOW ULTRAFILTRATION IS APPLIED TO VARIOUS FIELDS INCLUDING FOOD AND BEVERAGE PROCESSING, BIOTECHNOLOGICAL PROCEDURES, WATER AND WASTEWATER RECOVERY, AND CHEMICAL PROCESSING.

AVAILABILITY: TECHNOMIC PUBLISHING COMPANY, INC., 851 NEW HOLLAND AVENUE, BOX 3535, LANCASTER, PA 17604

IRIS ACCESSION NUMBER: EW014068

PUBLICATION DATE: 83

TITLE: CAVE-IN PROTECTION DURING EXCAVATION AND TRENCHING SAFETY TRAINING PACKAGES.

DESCRIPTOR: *ACCIDENT PREVENTION; *AUDIOVISUAL AIDS; *CAVE-INS; *EXCAVATION; *INSTRUCTIONAL MATERIALS; *SAFETY; *TRENCHING

DESCRIPTIVE NOTE: PRICE: $75.00 MEMBERS, $94.00 NONMEMBERS

ABSTRACT: THIS TRAINING PACKAGE CONTAINS INFORMATION ON THE DANGERS OF CAVE-INS, CAUSES OF CAVE-INS, WAYS TO PREVENT THEM, AND WHAT TO DO IF CAUGHT IN A CAVE-IN. THE TRAINING PACKAGE INCLUDES 66 SLIDES, SCRIPT, HANDOUTS, QUIZ, AND A JOBSITE SAFETY CHECKLIST.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION, COMPUTER SERVICES DEPARTMENT, 6666 WEST QUINCY AVENUE, DENVER, CO 80235

IRIS ACCESSION NUMBER: EW014069

TITLE: MICROCOMPUTERS FOR WATER UTILITIES.

PERSONAL AUTHOR: CESARIO, LEE

DESCRIPTOR: *ADMINISTRATION; *COMPUTERS; *COMPUTER

APPLICATIONS: *COMPUTER SOFTWARE: *MANAGEMENT; *MICROCOMPUTERS; *OPERATIONS (WATER); *UTILITIES; *WATER UTILITIES; *WATER TREATMENT

DESCRIPTIVE NOTE: 200P. PRICE: $21.00 MEMBERS; $25.50 NONMEMBERS

ABSTRACT: THIS PUBLICATION IS DESIGNED TO EXPLAIN HOW COMPUTERS WORK, USES FOR COMPUTERS, AND HOW COMPUTERS CAN MAKE A JOB EASIER. SECTIONS ARE INCLUDED ON AN OVERVIEW OF COMPUTERS, UTILITY USES, GENERAL SOFTWARE, WATER UTILITY SOFTWARE, HARDWARE, AND COMPUTER USERS.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION, COMPUTER SERVICES DEPARTMENT, 6666 WEST QUINCY AVE., DENVER, CO 80235

IRIS ACCESSION NUMBER: EW014070

PUBLICATION DATE: 86

TITLE: CORROSION CONTROL FOR OPERATORS.

DESCRIPTOR: *CORROSION; *CORROSION CONTROL; *OPERATIONS (WATER); *PIPES; *WATER PIPES; *WATER DISTRIBUTION; *WATER TREATMENT

DESCRIPTIVE NOTE: 128P. PRICE: $18.00 MEMBERS, $22.50 NONMEMBERS.

ABSTRACT: THIS PUBLICATION PROVIDES INFORMATION ON CAUSES AND TYPES OF CORROSION AS WELL AS METHODS FOR DETECTING AND SOLVING CORROSION-RELATED PROBLEMS. INCLUDED IS INFORMATION ON: (1) THE PHYSICAL, CHEMICAL, AND BIOLOGICAL ACTIONS THAT CAUSE CORROSION; (2) HOW VARIOUS PIPE MATERIALS AFFECT CORROSION RATES; AND (3) WHICH MATERIALS CAN SIGNIFICANTLY REDUCE CORROSION ACTIVITY.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION, COMPUTER SERVICES DEPARTMENT, 6666 WEST QUINCY AVENUE, DENVER, CO 80235

IRIS ACCESSION NUMBER: EW014071

PUBLICATION DATE: JUL 86

TITLE: WATER FUN FOR YOU.

DESCRIPTOR: *ELEMENTRY EDUCATION; *INSTRUCTIONAL MATERIALS; *DRINKING WATER; WATER QUALITY; *WATER RESOURCES; WATER SUPPLY; WATER TREATMENT

DESCRIPTIVE NOTE: 16P. PRICE: $.20 PER COPY.

ABSTRACT: THIS IS A COLORING BOOK FOR SCHOOL CHILDREN, AGES FIVE TO NINE. INCLUDED ARE PUZZLES, WORD GAMES, AND COLORING PAGES.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION, COMPUTER SERVICES DEPARTMENT, 6666 WEST QUINCY AVENUE, DENVER, CO

80235

IRIS ACCESSION NUMBER: EW014072

TITLE: WATER RATES AND RELATED CHARGES.

DESCRIPTOR: *COSTS; *CAPITAL COSTS; *MANAGEMENT; *OPERATIONS (WATER); *REGULATIONS; *RATES; *WATER RATES; *WATER SUPPLY

DESCRIPTIVE NOTE: PRICE: $11.00 MEMBERS; $14.00 NONMEMBERS.

ABSTRACT: THIS PUBLICATION IS A GUIDE FOR DEVELOPING COST-OF-SERVICE ANALYSES AND ESTABLISHING A SYSTEM OF RATES AND CHARGES FOR A WATER SUPPLY SYSTEM.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION, COMPUTER SERVICES DEPARTMENT, 6666 WEST QUINCY AVENUE, DENVER, CO 80235

IRIS ACCESSION NUMBER: EW014073

TITLE: WATER RESOURCE MEASUREMENTS.

PERSONAL AUTHOR: VAN HAVEREN, BRUCE P.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *ENGINEERING; *FORMULAS; *MEASUREMENT; *STATISTICS; *TABLES; *WATER RESOURCES

DESCRIPTIVE NOTE: PRICE: $13.00 MEMBER, $16.00 NONMEMBER.

ABSTRACT: WRITTEN FOR THE PRACTICING HYDROLOGIST, WATER ENGINEER, PLANNER, AND FIELD TECHNICIAN, WATER RESOURCE MEASUREMENTS INCLUDES: (1) MATHEMETICAL EQUIVALENTS AND TABLES; (2) TRIGONOMETRIC RELATIONSHIPS AND TABLES; (3) STATISTICAL FORMULAS; (4) CONVERSION FACTORS; (5)MENSURATION FORMULAS AND TABLES; (6) DRAINAGE BASIN MORPHOMETRIC FORMULAS; (7) TOPOGRAPHIC, CARTOGRAPHIC, AND PHOTOGRAMMETRIC TABLES; (8) PHYSICAL CONSTANTS; (9) HYDROMETEOROGICAL TABLES AND RELATIONSHIPS; (10) PHYSICAL CONSTANTS; (11) PRECIPITATION GUAGE RATING TABLES; (12) HYDRAULIC FORMULAS AND TABLES; (13) HYDROLOGIC AND EDAPHIC DATA; (14) BASIC WATERSHED INVENTORY CHECKLIST.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION, COMPUTER SERVICES DEPARTMENT, 6666 WEST QUINCY AVENUE, DENVER CO 80235

IRIS ACCESSION NUMBER: EW014075

PUBLICATION DATE: 86

TITLE: 1985 WATER QUALITY TECHNOLOGY CONFERENCE PROCEEDINGS.

DESCRIPTOR: *AWWA; *CONFERENCE PROCEEDINGS; *DRINKING

WATER; *OPERATIONS (WATER); *WATER QUALITY; *WATER SUPPLY; *WATER TREATMENT

DESCRIPTIVE NOTE: 768P. PRICE: $27.00 MEMBERS; $33.50 NONMEMBERS.

ABSTRACT: MORE THAN 50 PAPERS ON ADVANCES IN WATER QUALITY TECHNOLOGY ARE INCLUDED IN THE PROCEEDINGS FROM AWWA'S 1985 WATER QUALITY TECHNOLOGY CONFERENCE. PAPERS ARE INCLUDED ON: (1) ISOLATION OF LEGIONELLA SPECIES FROM CHLORINATED TAP WATER AND WHIRLPOOL BATHS; (2) QUALITY CONTROL IN MINERAL ANALYSIS; (3) COMPUTER WATER QUALITY DATABASES; (4) UPDATE ON STANDARD METHODS 17TH EDITION; (5) THE LIMITATIONS OF FORMAZIN AS A TURBIDITY STANDARD; AND (6) HOW TO DETERMINE AND CONTROL LEAD LEVELS IN TAP WATER.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION, COMPUTER SERVICES DEPARTMENT, 6666 WEST QUINCY AVENUE, DENVER, CO 80235

IRIS ACCESSION NUMBER: EW0140076

PUBLICATION DATE: 85

TITLE: CUTTING CHEMICAL WASTES.

DESCRIPTOR: *CHEMICALS; *ECONOMICS; *HAZARDOUS MATERIALS; *HAZARDOUS WASTES; *INDUSTRIAL WASTES; *REGULATIONS; *WASTE DISPOSAL; *WASTE REDUCTION; *POLLUTION CONTROL

DESCRIPTIVE NOTE: 535P. PRICE: $47.50

ABSTRACT: THIS REPORT ANALYZES EFFORTS MADE TO REDUCE HAZARDOUS WASTES IN THE U.S. ORGANIC CHEMICAL INDUSTRY. AN INTRODUCTION TO THE INDUSTRY AND ITS WASTES AND ANALYSIS OF WHERE AND HOW 29 ORGANIC CHEMICAL PLANTS IN NEW JERSEY, OHIO, AND CALIFORNIA HAVE BEEN REDUCING WASTES AT THE SOURCE ARE INCLUDED. REGULATORY AND ECONOMIC FACTORS THAT HAVE ENCOURAGED OR DISCOURAGED WASTE REDUCTION ARE EVALUATED. DETAILED PROFILES OF THE PLANTS STUDIED, INCLUDING CHEMICAL USE, WASTE DISPOSAL METHODS AND WASTE REDUCTION PRACTICES ARE INCLUDED.

AVAILABILITY: INFORM, INC., 381 PARK AVENUE SOUTH, NEW YORK, NY 10016

IRIS ACCESSION NUMBER: EW0140078

PUBLICATION DATE: 85

TITLE: PRACTICAL GUIDE TO GROUND-WATER SAMPLING (ISWS CONTRACT REPORT 374).

DESCRIPTOR: *GROUNDWATER; *GUIDES; *MONITORING; *SAMPLING; *WATER QUALITY; *WATER RESOURCES

DESCRIPTIVE NOTE: PRICE: $15.00, DISCOUNTS FOR ORDERS OF 100 OR MORE.

ABSTRACT: THIS PUBLICATION REVIEWS THE CRITICAL ELEMENTS TO BE CONSIDERED IN THE DEVELOPMENT OF RELIABLE SAMPLING PROTOCOLS FOR GROUND WATER INVESTIGATIONS. THE PRACTICAL GUIDE TRACES THE PHASED DEVELOPMENT OF A COST-EFFECTIVE MONITORING SYSTEM AND INTEGRATES THE DESIGN OF MONITORING EFFORTS WITH THE HYDROGEOLOGIC CONDITIONS AND WATER QUALITY CONCERNS. RECOMMENDATIONS ON PROVEN PROCEDURES FOR AQUIFER CHARACTERIZATION AND WATER SAMPLING METHODS ARE GIVEN. INFORMATION IS PROVIDED TO ALLOW THE READER TO WEIGH THE PROS AND CONS OF MATERIAL OR PUMP SELECTION. THE LITERATURE THROUGH MID 1985 IS COVERED IN DETAIL WITH RESPECT TO ERROR CONTROL AND THE SELECTION OF PROCEDURES AND COMPONENTS FOR GROUNDWATER INVESTIGATIONS.

AVAILABILITY: PUBLICATIONS OFFICE, ILLINOIS STATE WATER SURVEY, 2204 GRIFFITH DR., CHAMPAIGN, IL 61820

IRIS ACCESSION NUMBER: EW0140079

PUBLICATION DATE: MAR 85

TITLE: PRIVATISATION AND THE WATER INDUSTRY.

DESCRIPTOR: *CONFERENCE PROCEEDINGS; *ECONOMICS; *FRANCE; *GREAT BRITAIN; *PRIVATIZATION; *UTILITIES; *WATER SUPPLY; *WATER INDUSTRY

ABSTRACT: THIS VOLUME CONTAINS THE PROCEEDINGS OF A SYMPOSIUM ON "PRIVATISATION AND THE WATER INDUSTRY" HELD IN KENILWORTH IN MARCH 1985. FEATURED PAPERS ADDRESS THE BENEFITS OF THE CURRENT SYSTEM, THE FRENCH EXPERIENCE, AND THE ECONOMICS OF PRIVATIZATION. ALSO INCLUDED IS A RECORDED DISCUSSION BY WATER INDUSTRY PERSONNEL, ACADEMICS, CONSULTANTS, AND TRADE UNIONISTS ON THE TECHNICAL AND ECONOMIC ASPECTS OF THE CONCEPT.

AVAILABILITY: INSTITUTE OF WATER POLLUTION CONTROL, 53 LONDON ROAD, MAIDSTONE, KENT, ENGLAND, ME16 8JH

IRIS ACCESSION NUMBER: EW0140080

PUBLICATION DATE: 85

TITLE: INDUSTRIAL WASTEWATER TREATMENT TECHNOLOGY.

PERSONAL AUTHOR: PATTERSON, JAMES W.

DESCRIPTOR: *INDUSTRY; *INDUSTRIAL WASTES; *OPERATIONS (WASTEWATER); *POLLUTION CONTROL; *TECHNOLOGY; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 467P.

ABSTRACT: THIS IS A REWRITTEN, EXPANDED EDITION OF WASTEWATER TREATMENT TECHNOLOGY, WHICH WAS FIRST PUBLISHED IN 1975. NEW INFORMATION ON INDUSTRIAL WASTEWATER POLLUTION CONTROL HAS BEEN INCORPORATED IN THIS NEW VOLUME, ALONG WITH NEW POLLUTANTS THAT HAVE BECOME SERIOUS ENVIRONMENTAL CONCERNS AND TREATMENT TECHNOLOGIES APPROPRIATE IN HANDLING THEM.

AVAILABILITY: BUTTERWORTH PUBLISHERS, 80 MONTVALE AVENUE, STONEHAM, MA 02180

IRIS ACCESSION NUMBER: EW0140081

PUBLICATION DATE: 85

TITLE: CORROSION BASICS--AN INTRODUCTION.

DESCRIPTOR: *DESIGN; *CORROSION; *CORROSION CONTROL; *INSPECTION

DESCRIPTIVE NOTE: 353P. PRICE: $32.00 MEMBERS, $40.00 NONMEMBERS.

ABSTRACT: THIS IS AN UPDATE OF THE BASIC CORROSION COURSE TEXTBOOK. THE NEW EDITION COVERS THE SCOPE AND LANGUAGE OF CORROSION, BASIC CONCEPTS, METALLURGY, MATERIALS, LOCALIZED CORROSION, ENVIRONMENTAL CRACKING, INHIBITORS, CORROSION BY WATER AND STEAM, CATHODIC PROTECTION, UNDERGROUND AND ATMOSPHERIC CORROSION, COATINGS, TESTING AND INSPECTION, AND DESIGN AND FAILURE ANALYSIS.

AVAILABILITY: NATIONAL ASSOCIATION OF CORROSION ENGINEERS (NACE), BOX 218340, HOUSTON, TX 77218

IRIS ACCESSION NUMBER: EW0140082

PUBLICATION DATE: 85

TITLE: GROUNDWATER CONTAMINATION AND RECLAMATION.

PERSONAL AUTHOR: SCHMIDT, KENNETH, D.; ED.

DESCRIPTOR: *CONFERENCE PROCEEDINGS; *CONTAMINATION; *ECONOMICS; *GROUNDWATER; *MONITORING; *REGULATIONS; *RECLAMATION; *WATER QUALITY; *WATER RESOURCES; *WATER SUPPLY

DESCRIPTIVE NOTE: 175P. 20 PAPERS, PRICE: $29.95 AWRA MEMBERS-USA, $35.95 AWRA NONMEMBERS-USA.

ABSTRACT: THIS VOLUME IS A COMPILATION OF 20 SYMPOSIUM PAPERS DEALING NOTABLY WITH THE FOLLOWING TOPICS: GROUNDWATER QUALITY MONITORING--PROBLEM IDENTIFICATION; CASE HISTORIES OF GROUNDWATER POLLUTION AND OF AQUIFER RESTORATION; LEGAL ASPECTS OF GROUNDWATER CONTAMINATION AND CLEAN-UP; PUBLIC PERCEPTION OF GROUNDWATER POLLUTION; LIMITATIONS OF GROUNDWATER RECLAMATION PROJECTS; REGULATORY APPROACHES TOWARD THE PROTECTION OF GROUNDWATER; AND THE ECONOMICS OF AQUIFER RESTORATION AND AQUIFER PROTECTION VS. RESTORATION.

AVAILABILITY: AMERICAN WATER RESOURCES ASSOCIATION, 5410 GROSVENOR LANE, SUITE 220, BETHESDA, MD 20814

IRIS ACCESSION NUMBER: EW0140083

TITLE: THE USE OF NON-CONVENTIONAL WATER RESOURCES IN DEVELOPING COUNTRIES.

DESCRIPTOR: *DESALINATION; *DEVELOPING COUNTRIES; *ECONOMICS; *TECHNOLOGY; *WATER REUSE; *WATER RESOURCES; *WATER SUPPLY

DESCRIPTIVE NOTE: 278P. PRICE: $27.00 USA, USE SALES NO. E.84.II.A.14 WHEN ORDERING.

ABSTRACT: THE REPORT ASSESSES THE ADVANTEGES AND DISADVANTAGES OF VARIOUS WATER DESALINATION SYSTEMS, AND A SERIES OF ALTERNATIVE TECHNOLOGIES, IN RELATION TO CURRENT ECONOMIC CONDITIONS. PARTICULAR ATTENTION HAS BEEN GIVEN TO THE EXTENT TO WHICH DEVELOPMENTS IN THESE FIELDS COULD CREATE A FAVORABLE CLIMATE FOR RENEWED INTEREST IN NON-CONVENTIONAL TECHNOLOGIES. TECHNIQUES FOR THE DEVELOPMENT OF BARCKISH AND SEAWATER SOURCES, SUCH AS DISTILLATION, ELECTRODIALYSIS AND REVERSE OSMOSIS, ARE COVERED. THERE IS ALSO A DISCUSSION OF WATER TRANSPORT, REUSE, AND ENHANCEMENT OF EXISTING SUPPLIES, SUCH AS WEATHER MODIFICATION AND EVAPORATION SUPPRESSION.

AVAILABILITY: UNIPUB, P.O. BOX 1222, ANN ARBOR, MI 48106

IRIS ACCESSION NUMBER: EW0140084

TITLE: CONTAMINANT REMOVAL FROM PUBLIC WATER SYSTEMS.

PERSONAL AUTHOR: HOUCK, DANIEL C.; AND OTHERS

DESCRIPTOR: *CONTAMINATION; *MICROORGANISMS; *NITRATES; *OPERATIONS (WATER); *RADIONUCLIDES; *WATER TREATMENT; *TURBIDITY

DESCRIPTIVE NOTE: 524P.

ABSTRACT: THE FOUR MAJOR PARTS OF THE BOOK COVER MICROORGANISMS, NITRATES, RADIONUCLIDES, AND TURBIDITY. WITHIN THESE SECTIONS THERE ARE A SUMMARY AND OVERVIEW, REGULATORY REQUIREMENTS, PROBLEMS AND HOW TO APPROACH SOLUTIONS, SYSTEM DESIGNS, COST ESTIMATING AND FUNDING SOURCES, OPERATION AND MAINTENANCE, CASE HISTORIES, AND MUCH OTHER DATA. THERE ARE NUMEROUS ILLUSTRATIONS, TABLES, SAMPLE FORMS, AND OTHER USEFUL INFORMATION.

AVAILABILITY: NOYES PUBLICATIONS, MILL ROAD AT GRAND AVENUE, PARK RIDGE, NJ 07656

IRIS ACCESSION NUMBER: EW0140085

TITLE: WATER TREATMENT SPECIFICATION MANUAL.

PERSONAL AUTHOR: ROSA, FRANK

DESCRIPTOR: *EQUIPMENT; *HVAC EQUIPMENT; *FACILITIES; *OPERATIONS (WATER); *MAINTENANCE; *WATER TREATMENT; *SAFETY; *WATER SYSTEMS

DESCRIPTIVE NOTE: 207P. PRICE: $35.00

ABSTRACT: THIS BOOK IS INTENDED TO BE A "DESKTOP REFERENCE" CONTAINING PRACTICAL INFORMATION ON CORRECTING AND PREVENTING VARIOUS PROBLEMS WITH WATER SYSTEMS, PARTICULARLY WITH HVAC EQUIPMENT AND RELATED SYSTEMS. TOPICS COVERED INCLUDE WATER TREATMENT JUSTIFICATION, CLOSED SYSTEMS, OPEN SYSTEMS, ALGAECIDES/BIOCIDES, STEAM BOILERS, DOMESTIC WATER TREATMENT, CHEMICAL SAFETY, AND WATER TREATMENT. SPECIFICATIONS FOR EXISTING BUILDINGS. THROUGHOUT THE TEXT EMPHASIS IS ON PRACTICAL SOLUTIONS. A VARIETY OF ILLUSTRATIONS AND REFERENCES ARE PROVIDED.

AVAILABILITY: MCGRAW-HILL BOOK COMPANY, 1221 AVENUE OF THE AMERICAS, NEW YORK, NY 10020

IRIS ACCESSION NUMBER: EW0140086

PUBLICATION DATE: 86

TITLE: THE VALLEY GREEN.

PERSONAL AUTHOR: FARBER, JEFF

DESCRIPTOR: *AUDIOVISUAL AIDS; *ECOSYSTEMS; *DEVELOPMENT; *ENVIRONMENTAL IMPACT; *FILMS; *NATURAL RESOURCES; *PUBLIC PARTICIPATION; *URBAN AREAS; *PENNSYLVANIA

DESCRIPTIVE NOTE: FILM, 28 MINUTES.

ABSTRACT: THIS FILM EXAMINES THE COMPLEX INTERRELATIONSHIP OF THE NATURAL WORLD OF THE WISSAHICKON CREEK WITH URBAN AND SUBURBAN PHILADELPHIA. THE WISSAHICKON IS 21 MILES LONG, DRAINING OVER 64 SQUARE MILES OF NORTHWEST PHILADELPHIA AND ITS SUBURBS. THE BYPRODUCTS OF HOUSING AND INDUSTRIAL DEVELOPMENT IN THE VALLEY, INCLUDING SEWAGE TREATMENT EFFLUENT, IMPERVIOUS COVER, AND THE REDUCTION OF GROUNDWATER, HAVE HAD A GREAT IMPACT UPON THE WATER QUALITY AND GENERAL HEALTH OF THE STREAM. WITHIN PHILADELPHIA'S FAIRMOUNT PARK, THE WISSAHICKON IS PART OF A PROTECTED WOODLAND HABITAT. BUT EVEN HERE, LITTER AND VANDALISM THREATEN THE FRAGILE ECOSYSTEM. THE VALLEY GREEN DOCUMENTS THE EFFORTS OF THESE INVOLVED IN THE CARE AND PROTECTION OF THE WISSAHICKON AND ITS WATERSHED, AND LOOKS AT THE NEED TO BALANCE DEVELOPMENT IN URBAN AREAS WITH PROTECTION OF REMAINING GREEN SPACES.

AVAILABILITY: UMBRELLA FILMS, 60 BLAKE ROAD, BROOKLINE, MA 02146

IRIS ACCESSION NUMBER: EW0140087

PUBLICATION DATE: JAN 86

TITLE: COOPERATION ACROSS BOUNDARIES: THE ACID RAIN DILEMMA.

PERSONAL AUTHOR: GROSSMAN, ANN CAROL; SMITH, DAVID A.

DESCRIPTOR: *ACID RAIN; *AUDIOVISUAL AIDS; *ENVIRONMENTAL IMPACT; *CANADA; *FILMS; *LEGISLATION; *INTERNATIONAL PROBLEMS; *POLICIES; *ECONOMICS; *UNITED STATES OF AMERICA

DESCRIPTIVE NOTE: FILM, 30 MINUTES

ABSTRACT: THIS FILM EXPLORES ACID PRECIPITATION AS A PROBLEM CALLING FOR POLITICAL DIPLOMATICS SOLUTIONS. IT LOOKS AT THE EFFECT OF ACID RAIN ON U.S.-CANADIAN RELATIONS AND ON INTERSTATE AND INTERREGIONAL RELATIONS WITHIN THE UNITED STATES. THE FILM POINTS TO THE LEGAL DIFFICULITIES OF DEALING WITH AN ENVIRONMENTAL PROBLEM THAT CROSSES JURISDICTIONAL LINES, AND DESCRIBES ATTEMPTS TO COME TO GRIPS WITH THE CONFLICTS THAT ARISE BETWEEN SAFEGUARDING THE ENVIRONMENT AND PROTECTING THE ECONOMY. IT LOOKS AT ACID RAIN AS A CASE IN POINT FOR ENVIRONMENTAL POLICYMAKING THAT IS REGIONAL, NATIONAL AND EVEN INTERNATIONAL IN SCOPE, TAKING INTO ACCOUNT THE CONCERNS OF CITIZENS, GOVERNMENTS, AND INDUSTRY.

AVAILABILITY: UMBRELLA FILMS, 60 BLAKE ROAD, BROOKLINE, MA 02146

IRIS ACCESSION NUMBER: EW0140088

PUBLICATION DATE: 85

TITLE: HAZARDOUS WASTE MANAGEMENT HANDBOOK.

PERSONAL AUTHOR: PORTEUS, ANDREW; ED.

DESCRIPTOR: *HAZARDOUS MATERIALS; *HAZARDOUS WASTES; *MANAGEMENT; *POLICIES; *POLLUTION CONTROL; *TRANSPORTATION; *UNITED KINGDOM; *WASTE DISPOSAL

DESCRIPTIVE NOTE: 305P. PRICE: $72.95.

ABSTRACT: A GUIDE TO REGULATIONS, RULES, AND CODES OF PRACTICE THAT THE UNITED KINGDOM (UK) HAS DEVELOPED AS A RESPONSE TO THE EVER-INCREASING PROBLRM OF HAZARDOUS WASTES. THE BOOK PROVIDES AN OVERVIEW TO HAZARDOUS WASTES IN THE UK AND THEN DISCUSSES THE LEGALITIES OF CONTROLLING AND TRANSPORTING HAZARDOUS WASTES IN THE UK. IN ADDITION, A HYDROLOGICAL ASSESSMENT AND SELECTION OF HAZARDOUS WASTE DISPOSAL SITES, LEACHATE PRODUCTION, SOLIDIFICATION PROCESSES, ALTERNATIVES TO LANDFILLS, AND RADIOACTIVE WASTE DISPOSAL ARE DISCUSSED.

AVAILABILITY: BITTERWORTH PUBLISHERS, 80 MONTVALE AVE., STONEHAM, MA 02180

IRIS ACCESSION NUMBER: EW0140089

PUBLICATION DATE: 86

TITLE: SIMPLIFIED LABORATORY PROCEDURES FOR WASTEWATER EXAMINATION. THIRD EDITION.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *LABORATORY PROCEDURES; *MICROBIOLOGY; *OPERATIONS (WASTEWATER); *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: PRICE: $7.5@ MEMBER, $1@.@@ NONMEMBER.
ABSTRACT: THIS THIRD EDITION CONTAINS PROCEDURES THAT CONFORM TO THE 16TH EDITION OF STANDARD METHODS. A NEW SECTION ON MICROBIOLOGY AND SAMPLE DATA RECORDING AND REPORTING WORKSHEETS ARE INCLUDED.

AVAILABILITY: WCPF, 2626 PENNSYLVANIA AVE., N.W., WASHINGTON, DC 2@@37

IRIS ACCESSION NUMBER: EW@14@9@

PUBLICATION DATE: 86

TITLE: ACID DEPOSITION.

PERSONAL AUTHOR: ADAMS, DONALD D.; PAGE, WALTER P.; EDS.

DESCRIPTOR: *ACID RAIN; *ACID DEPOSITION; *CONFERENCE PROCEEDINGS; *ENVIRONMENTAL IMPACT; *ECONOMICS; *MANAGEMENT; *PLANNING; *POLICIES; *POLLUTION CONTROL

DESCRIPTIVE NOTE: 56@P. PRICE: $79.5@

ABSTRACT: THIS IS AN EXPANDED VERSION OF THE PROCEEDINGS OF A CONFERENCE ON ACID DEPOSITION HELD IN PLATTSBURGH, NEW YORK DURING JUNE 1983. TOPICS INCLUDE ATMOSPHERIC PROCESSES AND TRANSPORT, ENVIRONMENTAL IMPACTS TO AQUATIC ECOSYSTEMS AND PROCESSES, ENVIRONMENTAL IMPACTS TO TERRESTRIAL ECOSYSTEMS AND PROCESSES, ECONOMIC IMPACTS AND POLICY ISSUES.
AVAILABILITY: PLENUM PRESS, 233 SPRING STREET, NEW YORK, NY 1@@13

IRIS ACCESSION NUMBER: EW@14@91

PUBLICATION DATE: 85

TITLE: ECOACCIDENTS.

PERSONAL AUTHOR: CAIRNS, JOHN, JR.; ED.

DESCRIPTOR: *ACCIDENT PREVENTION; *ECOACCIDENTS; *ENVIRONMENTAL IMPACT; *MANAGEMENT; *PLANNING; *WORLD PROBLEMS; *ECOSYSTEMS

DESCRIPTIVE NOTE: 163P. PRICE: $42.5@

ABSTRACT: THIS IS VOLUME 11 OF SERIES 1 OF THE NATO CONFERENCE SERIES. THE PRIMARY GOAL OF THIS WORK IS TO PROVIDE A SCIENTIFIC FOUNDATION FOR THE DEVELOPMENT OF MANAGEMENT TECHNIQUES THAT CAN BE USED TO COPE WITH ECOACCIDENTS. MUCH OF THE BOOK DETAILS CASE HISTORIES OF VARIOUS TYPES OF ECOACCIDENTS IN DIFFERENT CLIMATIC AND ECOLOGICAL ZONES. NATURAL RECOVERY PROCESSES ARE EVALUATED ALONG WITH SOCIETAL INTERVENTION FOR THE REHABILITATION OF DAMAGED ECOSYSTEMS.

AVAILABILITY: PLENUM PRESS, 233 SPRING ST., NEW YORK, NY 1@@13

IRIS ACCESSION NUMBER: EW@14@92

PUBLICATION DATE: 86

TITLE: TREATMENT EFFICIENCY AND ENERGY USE IN ACTIVATED SLUDGE PROCESS CONTROL.

PERSONAL AUTHOR: ARTHUR, ROBERT M.; ED.

DESCRIPTOR: *ACTIVATED SLUDGE PROCESS; *ACTIVATED SLUDGE; *CONFERENCE PROCEEDINGS; *ENERGY USE; *OPERATIONS (WASTEWATER); *PROCESS CONTROL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 184P.

ABSTRACT: THIS WORK CONTAINS PRESENTATIONS OF THE THIRD CONFERENCE ON ACTIVATED SLUDGE PROCESS CONTROL. QUESTIONS AND ANSWERS WERE ENCOURAGED AFTER EACH PRESENTATION AT THIS CONFERENCE. THE QUESTIONS AND ANSWERS WERE RECORDED AND TRANSCRIBED AND FORMED AN IMPORTANT PART OF THE WRITTEN PROCEEDINGS. THIS ASPECT OF THE CONFERENCE, IN ADDITION TO THE ROUND TABLE DISCUSSION, ARE PROVIDED IN THIS VOLUME.

AVAILABILITY: ARTHUR TECHNOLOGY, INC., 548 PRAIRIE ROAD, BOX 1236, FOND DU LAC, WI 54935

IRIS ACCESSION NUMBER: EW@14@93
PUBLICATION DATE: 86

TITLE: HAZARDOUS WASTE MANAGEMENT.

PERSONAL AUTHOR: DAWSON, GAYNOR W.; MERCER, BASIL W.

DESCRIPTOR: *ENVIRONMENT; *HAZARDOUS WASTES; *MANAGEMENT; *PUBLIC HEALTH; *POLICIES; *REGULATIONS; *RESEARCH NEEDS; WATER QUALITY

DESCRIPTIVE NOTE: 532P. PRICE: $65.@@

ABSTRACT: THIS VOLUME PROVIDES A "SOLUTION-ORIENTED" APPROACH TO MANY PROBLEMS DIRECTLY RELATED TO SAFE MANAGEMENT OF PCBS, TOXIC WASTEWATER, INDUSTRIAL FIRES AND EXPLOSIONS, DIOXIN, DIBENZOFURANS, NUCLEAR WASTE, AND RCRA. IT ENCAPSULATES OVER 1@ YEARS OF EPA STUDIES, PLANS, AND REPORTS, AND IDENTIFIES FUTURE STUDIES AND POTENTIAL POLICY DECISIONS.

AVAILABILITY: JOHN WILEY & SONS, INC., 6@5 THIRD AVENUE, NEW YORK, NY 1@158

IRIS ACCESSION NUMBER: EW@14@94

PUBLICATION DATE: 86

TITLE: PLUMBING MATERIALS AND DRINKING WATER QUALITY.

PERSONAL AUTHOR: SORG, THOMAS J.; BELL, FRANK A., JR.

DESCRIPTOR: *DRINKING WATER; *OPERATIONS (WATER); *PLUMBING; *WATER PIPES; *WATER DISTRIBUTION; *WATER QUALITY; *WATER TREATMENT

DESCRIPTIVE NOTE: 182P. PRICE: $36.00

ABSTRACT: A REVIEW OF DRINKING WATER PROBLEMS RELATED TO PLUMBING MATERIALS ARE PRESENTED IN THIS BOOK. TOPICS INCLUDE PLASTIC PIPING AND JOINING MATERIALS, IMPACT OF METALLIC PLUMBING MATERIALS ON WATER QUALITY, AND TREATMENT OR WATER QUALITY ADJUSTMENT TO ATTAIN MCLS IN METALLIC POTABLE WATER PLUMBING SYSTEMS.

AVAILABILITY: NOYES PUBLICATIONS, MILL ROAD AT GRAND AVE., PARK RIDGE, NJ 07656

IRIS ACCESSION NUMBER: EW0140095

PUBLICATION DATE: 86

TITLE: AQUIFER RESTORATION: STATE-OF-THE-ART.

PERSONAL AUTHOR: KNOX, R. C.; AND OTHERS

DESCRIPTOR: BIBLIOGRAPHIES; *AQUIFERS; *AQUIFER RESTORATION; *GROUNDWATER; *WATER RESOURCES; *WATER SUPPLY; *WATER POLLUTION CONTROL; *WATER TREATMENT; RESEARCH

DESCRIPTIVE NOTE: 750P. PRICE: $64.00

ABSTRACT: THE BOOK INCLUDES SECTIONS ON: GROUNDWATER POLLUTION CONTROL THROUGH INSTITUTIONAL MEASURES, SOURCE CONTROL, WELL SYSTEMS, CAPPING AND LINERS AND IN SITU CHEMICAL TREATMENT AND BIOLOGICAL STABILIZATION. THE APPENDIXES COVER STUDIES OF AQUIFER RESTORATION. AN ANNOTATED BIBLIOGRAPHY OF 225 SELECTED REFERENCES IS ALSO INCLUDED.

AVAILABILITY: NOYES PUBLICATIONS, MILL ROAD AT GRAND AVE., PARK RIDGE, NJ 07656

IRIS ACCESSION NUMBER: EW0140096

PUBLICATION DATE: 86

TITLE: HANDBOOK OF CHLORINATION, SECOND EDITION.

PERSONAL AUTHOR: WHITE, GEO. CLIFFORD

DESCRIPTOR: *CHLORINATION; *DISINFECTION; *DRINKING WATER; *INDUSTRY; *OPERATIONS (WASTEWATER); *WATER TREATMENT; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 1088P. PRICE: $89.50

ABSTRACT: THIS PUBLICATION CONSIDERS NEW DEVELOPMENTS AND ALTERNATIVE METHODS FOR DISINFECTION OF POTABLE WATER, INDUSTRIAL WATER, AND WASTEWATER.

AVAILABILITY: VAN NOSTRAND REINHOLD, MAIL ORDER DEPT., 7625 EMPIRE DRIVE, FLORENCE, KY 41042

IRIS ACCESSION NUMBER: EW0140097

PUBLICATION DATE: 85

TITLE: INDUSTRIAL WASTEWATER TREATMENT TECHNOLOGY, SECOND EDITION.

PERSONAL AUTHOR: PATTERSON, JAMES W.

DESCRIPTOR: *COSTS; *ECONOMICS; *INDUSTRIAL WASTES; *INDUSTRIAL WASTEWATER; *OPERATIONS (WASTEWATER); *TECHNOLOGY; *WASTEWATER TREATMENT; *POLLUTANTS; *WATER POLLUTION CONTROL; *WATER QUALITY

DESCRIPTIVE NOTE: 512P. PRICE: $53.95

ABSTRACT: THIS PUBLICATION IS ORGANIZED BY SPECIFIC POLLUTANT FOR QUICK AND EASY REFERENCE. INFORMATION IS PROVIDED TO HELP SELECT THE MOST EFFECTIVE AND ECONOMICAL TREATMENT. NUMEROUS CHARTS, TABLES, AND GRAPHS ARE INCLUDED.

AVAILABILITY: BUTTERWORTHS, 80 MONTVALE AVE., STONEHAM, MA 02180

IRIS ACCESSION NUMBER: EW0140099

PUBLICATION DATE: APR 86

TITLE: REMOVAL OF HEAVY METALS FROM WASTEWATERS.

PERSONAL AUTHOR: BESZEDITS, STEPHEN; NETZER, AHARON

DESCRIPTOR: *HEAVY METALS; *INDUSTRIAL WASTES; *METALS; *OPERATIONS (WASTEWATER); *WASTEWATER TREATMENT; *WASTEWATER; *WASTE DISPOSAL

DESCRIPTIVE NOTE: 195P. PRICE: $95.00-USA.

ABSTRACT: THIS PUBLICATION DESCRIBES CONVENTIONAL AND NOVEL METHODS AVAILABLE FOR THE REMOVAL AND RECLAMATION OF HEAVY METALS FROM WASTEWATERS WITH A SPECIAL EMPHASIS ON COMMERCIALLY-PROVEN INNOVATIONS. PRECIPITATION, CEMENTATION, REVERSE OSMOSIS, ION EXCHANGE, OZONATION, SOLVENT EXTRACTION, ACTIVATED CARBON ADSORPTION, EVAPORATION, ELECTRODIALYSIS, FREEZING, FOAM SEPARATION AND ELECTROLYTIC RECOVERY ARE SOME OF THE TECHNIQUES PRESENTED. ONE CHAPTER IS DEVOTED ENTIRELY TO THE HANDLING AND DISPOSAL OF METAL-CONTAMINATED SLUDGES. APPLICATIONS OF TREATMENT PROCESSES ARE ILLUSTRATED WITH CASE STUDIES TAKEN FROM BENCH-SCALE INVESTIGATIONS AS WELL AS EXPERIENCES FROM FULL-SCALE TREATMENT FACILITIES. ALTHOUGH THE BOOK DRAWS PRIMARILY FROM U.S. SOURCES, DEVELOPMENTS AND EXAMPLES OF TREATMENT PRACTICES FROM OTHER COUNTRIES THROUGHOUT THE WORLD - ESPECIALLY GREAT BRITAIN, SWEDEN, THE NETHERLANDS, CANADA, JAPAN, SOUTH AFRICA AND AUSTRALIA - ARE ALSO INCLUDED.

AVAILABILITY: B & L INFORMATION SERVICES, P.O. BOX 458,

POSTAL STATION "L", 473 OAKWOOD AVE., TORONTO, ONT. M6E 2W4 CANADA

IRIS ACCESSION NUMBER: EW0141Ø9

PUBLICATION DATE: 86

TITLE: DIRECTORY OF FEDERAL LABORATORY AND TECHNOLOGY RESOURCES. 1986-1987. A GUIDE TO SERVICES, FACILITIES, AND EXPERTISE.

DESCRIPTOR: *DIRECTORIES; ENVIRONMENT; *ENGINEERING CENTERS; *INFORMATION SERVICES; *LABORATORIES; *FEDERAL AGENCIES; SCIENCES; *TECHNICAL INFORMATION CENTERS; ENGINEERING

DESCRIPTIVE NOTE: 2ØØP. PRICE: $29.ØØ BOOK, $3.ØØ SHIPPING & HANDLING

ABSTRACT: THIS IS A GUIDE TO FEDERAL AGENCIES, LABORATORIES, AND ENGINEERING CENTERS. DETAILED SUMMARIES ARE ARRANGED IN 31 SUBJECT AREAS. DESCRIPTIONS OF 9Ø TECHNICAL INFORMATION CENTERS ARE ALSO INCLUDED.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA 22161

IRIS ACCESSION NUMBER: EW0141Ø

PUBLICATION DATE: 84

TITLE: GROUNDWATER-LEACHATE: MODELING/MONITORING/SAMPLING.

PERSONAL AUTHOR: CHEREMISINOFF, PAUL N.; AND OTHERS

DESCRIPTOR: *CONTAMINATION; *GROUNDWATER; *LANDFILLS; *LEACHATE; *MODELING; *MONITORING; *SAMPLING; *SOLID WASTES; *WASTE DISPOSAL; *WATER QUALITY

DESCRIPTIVE NOTE: 154P. PRICE: $24.ØØ, 6X9 SOFTWARE.

ABSTRACT: THIS BOOK HAS BEEN PREPARED AS A GUIDE IN DEVELOPMENT, USES AND LIMITATIONS OF GROUNDWATER MODELS FOR PREDICTING MOVEMENT OF CONTAMINATED LEACHATE PLUMES LOCATED NEAR SOLID WASTE LAND DISPOSAL FACILITIES. ADDITIONALLY COVERED IS BACKGROUND ON MONITORING AND SAMPLING METHODOLOGY FOR SUCH APPLICATIONS. PRESENTED IS DEFINITION AND EXTENT OF GROUNDWATER CONTAMINATION PROBLEMS WHICH ARE RECOGNIZED AS LEACHATE GENERATED FROM SOLID WASTE LAND DISPOSAL PRACTICES. THE DISCUSSION OF MODELING TECHNIQUES INCLUDES ANALYTICAL MODELING VERSUS DIGITAL COMPUTER MODELING. ACTUAL MODELS ARE DESCRIBED WITH REFERENCES TO CASE HISTORIES INVOLVING GROUNDWATER CONTAMINATION AND PREDICTIVE MODELING METHODS. LIMITATIONS AND POTENTIAL ERROR SOURCES IN GROUNDWATER MODELING ARE PRESENTED. MONITORING SYSTEMS AND SAMPLING PARTICULARLY APPLICABLE TO POINT SOURCE CONTAMINATION AS WELL AS FOR OVERALL INVESTIGATION OF LANDFILL/LEACHATE/GROUNDWATER DETECTION AND EVALUATION OF QUALITY AND PROBLEMS THAT MAY BE CAUSED BY LEACHATE ARE PRESENTED. SAMPLING ITSELF IS A CRUCIAL ACTIVITY

INVOLVROUNDWATER MONITORING. DATA DERIVED FROM MONITORING IS TAKEN FROM SAMPLE ANALYSIS AND THEREFORE DEPENDS ON THE QUALITY OF THE SAMPLE AND IS PRELUDE DATA FOR MODELING.

AVAILABILITY: TECHNOMIC PUBLISHING COMPANY, INC., 851 NEW HOLLAND AVE., BOX 3535, LANCASTER, PA 176Ø4

IRIS ACCESSION NUMBER: EW0141Ø

TITLE: GROUNDWATER AND WELLS. SECOND EDITION.

PERSONAL AUTHOR: DRISCOLL, FLETCHER G.

DESCRIPTOR: *AQUIFERS; *GROUNDWATER; *DRILLING; *MONITORING; *WELLS; *WATER WELLS; *WATER RESOURCES

DESCRIPTIVE NOTE: 1100+P. PRICE: $45.ØØ

ABSTRACT: THIS IS THE SECOND EDITION OF THIS PUBLICATION. NEW CHAPTERS ARE INCLUDED ON AQUIFERS, DRILLING FLUIDS, PUMPING TEST ANALYSES, GROUNDWATER MONITORING, GROUNDWATER EXPLORATION, AND WATER WELLS.

AVAILABILITY: JOHNSON DIVISION, SIGNAL ENVIRONMENTAL SYSTEMS INC., P.O. BOX 64118, ST. PAUL, MINNESOTA 55164

IRIS ACCESSION NUMBER: EW0141Ø

PUBLICATION DATE: 85

TITLE: GROUNDWATER: NEW PERSPECTIVES, NEW INITIATIVES.

DESCRIPTOR: *CONTAMINATION; *GROUNDWATER; *HAZARDOUS WASTES; *MANAGEMENT; *PLANNING; *PUBLIC HEALTH; *WATER QUALITY; *WATER RESOURCES; *WATER SUPPLY

DESCRIPTIVE NOTE: 4ØP. PRICE: $11.ØØ

ABSTRACT: THIS PUBLICATION PRESENTS A GENERAL OVERVIEW OF GROUNDWATER. INCLUDED ARE THE FOLLOWING SECTIONS: (1) DEFINING GROUNDWATER; (2) DEPENDING ON GROUNDWATER; (3) AFFECTING GROUNDWATER; AND (4) PROTECTING GROUNDWATER.

AVAILABILITY: FRESHWATER FOUNDATION, 25ØØ SHADYWOOD RD., BOX 9Ø, NAVARRE, MN 55392

IRIS ACCESSION NUMBER: EW0141Ø

TITLE: MANUAL ON CAUSES AND CONTROL OF ACTIVATED SLUDGE BULKING AND FOAMING.

PERSONAL AUTHOR: JENKINS, DAVID; AND OTHERS

DESCRIPTOR: *ACTIVATED SLUDGE; *BULKING; *FOAMING; *CASE STUDIES; *LABORATORY PROCEDURES; *OPERATIONS (WASTEWATER); *PROCESS CONTROL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 165P.

ABSTRACT: THIS PUBLICATION PROVIDES PRACTICAL METHODS FOR MAINTAINING AND IMPROVING EFFLUENT QUALITY. INCLUDED ARE PROCEDURES FOR IDENTIFYING AND CONTROLLING FILAMENTOUS ORGANISMS, CASE HISTORIES OF SOLUTIONS TO PROBLEMS IN PLANTS OF VARIOUS TYPES, AND READY-TO-USE LABORATORY WORKSHEETS FOR ORGANISM IDENTIFICATION.

AVAILABILITY: RIDGELINE PRESS, 1136-A ARCHARD ROAD, LAYFAYETTE, CA 94549

IRIS ACCESSION NUMBER: EW014115

TITLE: HANDBOOK OF PUBLIC WATER SYSTEMS.

PERSONAL AUTHOR: CULP, ED.; AND OTHERS

DESCRIPTOR: *COSTS; *DRINKING WATER; *EQUIPMENT; *FACILITIES; *OPERATIONS (WATER); *RESEARCH; *UTILITIES; *WATER TREATMENT

DESCRIPTIVE NOTE: 1,932P. PRICE: $89.50

ABSTRACT: THE HANDBOOK OF PUBLIC WATER SYSTEMS DESCRIBES INNOVATIVE AND COST-EFFICIENT TECHNIQUES FOR DESIGNING AND OPERATING PUBLIC WATER SYSTEMS, PROVIDES DATA FROM CURRENT WATER-SYSTEM RESEARCH, EVALUATES APPLICATIONS OF NEW WATER-TREATMENT METHODS, AND ANALYZES WATER-PROJECT COSTS. TOPICS INCLUDE: (1) TRIHALOMETHANE (THM) REMOVAL AND CONTROL; (2) SMALL WATER-TREATMENT SYSTEMS; (3) ENERGY CONSERVATION TECHNIQUES; (4) SLUDGE HANDLING AND DISPOSAL; AND (5) SOURCE DEVELOPMENT.

AVAILABILITY: VAN NOSTRAND REINHOLD, MAIL ORDER SERVICE, 7625 EMPIRE DR., FLORENCE, KY 41042

IRIS ACCESSION NUMBER: EW014116

PUBLICATION DATE: 86

TITLE: FIREFIGHTER'S HANDBOOK OF HAZARDOUS MATERIALS, FOURTH EDITION.

DESCRIPTOR: *ACCIDENT PREVENTION; *CHEMICALS; *HAZARDOUS MATERIALS; *FIRES; *FIRE FIGHTING; *HANDBOOKS; *PUBLIC SAFETY; *TOXIC SUBSTANCES; *POLLUTION CONTROL

DESCRIPTIVE NOTE: PRICE: $19.95

ABSTRACT: THIS MANUAL HAS LISTINGS OF OVER 5,600 POTENTIALLY DANGEROUS PRODUCTS. CHEMICALS ARE LISTED ALPHABETICALLY SHOWING FLASH POINT, FAMMAABILITY RANGE, WATER SOLUBILITY, TOXIC RATINGS, RECOMMENDED FIRE FIGHTING AGENTS, SPECIFIC GRAVITY, VAPOR DENSITY, FIRST AID, EVACUATION INFORMATION AND OTHER DATA.

AVAILABILITY: MALTESE ENTERPRISES, INC., ATTN.: CHARLES J BAKER, P.O. BOX 34048, INDIANAPOLIS, INDIANA 46234

IRIS ACCESSION NUMBER: EW014119

PUBLICATION DATE: 84

TITLE: NATIONAL WATER SUMMARY 1984.

DESCRIPTOR: GROUNDWATER; RIVERS; *U.S. GEOLOGICAL SURVEY; *TRENDS; *WATER QUALITY; *WATER RESOURCES; *WATER SUPPLY; *WATER USE

DESCRIPTIVE NOTE: 467P.

ABSTRACT: THIS ILLUSTRATED VOLUME IS THE SECOND OF AN ANNUAL SERIES OF REPORTS PREPARED BY THE U.S. GEOLOGICAL SURVEY THAT DESCRIBES THE CONDITIONS, TRENDS, AVAILABILITY, QUALITY, AND USE OF U.S. WATER RESOURCES. THIS EDITION PRESENTS AN OVERVIEW OF THE OCCURRENCE, DISTRIBUTION, AND USE OF GROUNDWATER IN EACH U.S. STATE AND SURROUNDING TERRITORRIES. ALSO INCLUDED IS A REVIEW OF SIGNIFICANT HYDROLOGIC AND WATER-RELATED EVENTS THAT OCCURRED IN 1984; AN ANALYSIS OF NITRATE IN GROUNDWATER; AND DISCUSSIONS OF THE DISTRIBUTION AND TRENDS OF SEVERAL WATER QUALITY CONSTITUENTS IN MAJOR RIVERS.

AVAILABILITY: U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402

IRIS ACCESSION NUMBER: EW014120

PUBLICATION DATE: 84

TITLE: SALINITY MANAGEMENT.

DESCRIPTOR: *AUDIOVISUAL AIDS; *AGRICULTURE; *IRRIGATION; *ISRAEL; *SALINITY; *WATER RESOURCES; *WATER SUPPLY; *WATER QUALITY; *VIDEO TAPES

DESCRIPTIVE NOTE: VIDEO 14 1/2 MIN., COST OF EACH CASSETTE: 1/2 IN. BETAMAX FORMAT US $60, 1/2 IN. VHS FORMAT US $60, 3/4 IN. U-MATIC FORMAT US $70.

ABSTRACT: SALINITY, ONE OF THE FACTORS LIMITING HIGH YIELDS, MAY CREATE SERIOUS DAY TO DAY PROBLEMS FOR FARMERS WHO MUST COPE WITH CONDITIONS SUCH AS THE USE OF SALINE OR SODIC WATERS CONTAINING SALTS OF DIFFERENT CONCENTRATIONS AND COMPOSITION, THE GROWING OF CROPS IN SALINE OR SODIC SOILS, AND WITH SALT-SENSITIVE PLANTS. ISRAELI FARMING HAS SUCCESSFULLY DEALT WITH SERIOUS SALINITY PROBLEMS THROUGH THE COMBINED EFFORTS OF FARMERS, RESEARCHERS AND EXTENSION WORKERS IN THE DEVELOPMENT AND IMPLEMENTATIN OF PROPER SALINITY MANAGEMENT. THE CASSETTE DEMONSTRATES SOME EXAMPLES OF THE ISRAELI EXPERIENCE IN THIS FIELD-IRRIGATION MANAGEMENT IN SALINE SOILS, WITH SALINE WATER, WITH SODIC AND SALINE WATER, AND WITH SUB-SOIL DRAINAGE. ALSO SHOWN IS THE MONITORING OF SALINITY, DIVERSION OF SALTY SPRINGS FROM A LAKE, AND THE MIXING OF WATERS FROM DIFFERENT SOURCES SO AS TO SUPPLY WATER OF VARYING QUALITIES. THE TAPE IS AVAILABLE IN ENGLISH, SPANISH, OR HEBREW.

AVAILABILITY: INTERNATIONAL IRRIGATION INFORMATION CENTER, P.O.B. 49, VOLCANI CENTER, 50 250 BET DAGAN, ISRAEL TEL.: (03)980 356; TELEX: (COSTI) 03-2332

IRIS ACCESSION NUMBER: EW014121

PUBLICATION DATE: 81

TITLE: FERTIGATION.

DESCRIPTOR: *AUDIOVISUAL AIDS; *AGRICULTURE; *FERTILIZER; *FERTIGATION; *IRRIGATION; *WATER RESOURCES; *WATER SUPPLY; *VIDEO TAPES

DESCRIPTIVE NOTE: VIDEO 13 1/2 MIN.; COST OF EACH CASSETTE: 1/2 IN. BETAMAX FORMAT US $60, 1/2 IN. VHS FORMAT US $60, 3/4 IN. U-MATIC FORMAT US $70.

ABSTRACT: NEW TECHNIQUES ARE GRADUALLY REPLACING THE OLDER BROADCASTING METHODS OF FERTILIZATION. FERTIGATION, THE INTRODUCTION OF FERTILIZER INTO IRRIGATION WATER, IS INCREASINGLY ACCEPTED WORLDWIDE AND IS USED IN MODERN IRRIGATION SYSTEMS WITH A HIGH DEGREE OF EFFICIENCY. SEVERAL TECHNIQUES ARE AVAILABLE FOR THE INJECTION OF FERTILIZER INTO PRESSURIZED IRRIGATION SYSTEMS AND THE FOLLOWING ARE DEMONSTRATED IN THE TAPE: TANKS WITH BY-PASS FLOW WHERE THE CONCENTRATION OF FERTILIZER IN THE IRRIGATION WATER DECREASES WITH TIME, TANKS AT CONSTANT CONCENTRATION, VENTURI PUMPS, AND PISTON PUMPS AND DIAPHRAGM PUMPS OPERATED BY THE WATER IN THE IRRIGATION SYSTEM. ALSO SHOWN ARE A CENTRAL STORAGE INSTALLATION AND A DEVICE FOR CONTINUOUS AND CONTROLLED DISSOLVING OF SOLID FERTILIZERS. THIS TAPE RECEIVED AN AWARD AT ISRAEL'S 2ND NATIONAL COMPETITION FOR THE BEST EDUCATION FILM 1982. THE TAPE IS AVAILABLE IN ENGLISH, SPANISH, OR HEBREW.

AVAILABILITY: INTERNATIONAL IRRIGATION INFORMATION CENTER, P.O.B. 49, VOLCANI CENTER, 50 250 BET DAGAN, ISRAEL

IRIS ACCESSION NUMBER: EW014122

PUBLICATION DATE: 82

TITLE: FILTRATION OF IRRIGATION WATER.

DESCRIPTOR: *AUDIOVISUAL AIDS; *AGRICULTURE; *FILTRATION; *IRRIGATION; *WATER RESOURCES; *WATER SUPPLY; *VIDEO TAPES

DESCRIPTIVE NOTE: VIDEO 14 3/4 MIN. COST OF EACH CASSETTE: 1/2 IN. BETAMAX FORMAT US $60, 1/2 IN. VHS FORMAT US $60, 3/4 IN. U-MATIC FORMAT US $70.

ABSTRACT: FILTRATION BECOMES IMPORTANT WHEN THE FARMER SWITCHES FROM SURFACE TO SPRINKLER OR DRIP IRRIGATION. BECAUSE THE ORIFICES IN THESE SYSTEMS ARE SMALLER, AS IN MINI-SPRINKLERS, MICROJETS OR DRIPPERS, GOOD FILTRATION IS VITAL IN ORDER TO PREVENT CLOGGING. IDEAS AND PRINCIPLES ARE BEING DEVELOPED CONTINUOUSLY IN ORDER TO ACHIEVE BETTER RESULTS FROM FILTRATION, WHILE REDUCING MAINTENANCE TIME AND EXPENSE. THE TAPE DEMONSTRATES SOME OF THE MORE WIDELY USED METHODS FOR FILTRATION OF ORGANIC MATTER AND FINE PARTICLES SUSPENDED IN IRRIGATION WATER: SCREEN, GRAVEL AND DISC FILTERS, AND SAND SEPARATORS. ALSO DEMONSTRATED ARE SELF-FLUSHING AND AUTOMATED DEVICES: ELECTRONIC CONTROL SYSTEMS, SELF-FLUSHING SCREEN FILTERS, ELECTRICALLY OPERATED BRUSHES TO CLEAN THE INNER SIDE OF THE FILTER SCREENS, AND AN

AUTOMATIC HYDRAULIC FLUSHING SYSTEM WHICH REMOVES DIRT FROM THE FILTER SCREENS BY SUCTION. THE TAPE IS AVAILABLE IN ENGLISH, SPANISH, OR HEBREW.

AVAILABILITY: INTERNATIONAL IRRIGATION INFORMATION CENTER, P.O.B. 49, VOLCANI CENTER, 50 250 BET DAGAN, ISRAEL

IRIS ACCESSION NUMBER: EW014123

PUBLICATION DATE: 84

TITLE: TENSIOMETERS - OPERATION AND MAINTENANCE.

DESCRIPTOR: *AUDIOVISUAL AIDS; *AGRICULTURE; *IRRIGATION; *IRRIGATION CONTROLS; *MEASUREMENT INSTRUMENTS; *TENSIOMETERS; *WATER CONSERVATION; *WATER SUPPLY; *VIDEO TAPES

DESCRIPTIVE NOTE: VIDEO 14 3/4 MIN. COST OF EACH CASSETTE: 1/2 IN. BETAMAX FORMAT US $60, 1/2 IN. VHS FORMAT US $60, 3/4 IN. U-MATIC FORMAT US $70.

ABSTRACT: TENSIOMETERS HAVE BECOME POPULAR AMONG FARMERS FOR SOIL MOISTURE CONTROL AND ARE AN IMPORTANT TOOL IN SCHEDULING IRRIGATION FOR INTENSIVE CROPS AS WELL AS FIELD CROPS AND ORCHARDS. TENSIOMETER READINGS REFLECT SOIL MOISTURE TENSION AND THUS FACILITATE BETTER PLANNING AND MORE EFFICIENT IRRIGATION SCHEDULING. HOWEVER, ONLY CORRECT INSTALLATION AND PROPER MAINTENANCE WILL ENSURE RELIABLE READINGS. THIS TAPE, WHICH IS PART OF THE IRRIGATION CONTROL SERIES, PRESENTS A DETAILED DEMONSTRATION ON THE OPERATION AND MAINTENANCE OF TENSIOMETERS, THEIR PREPARATION FOR OPERATION, INCLUDING CALIBRATION, AND SEVERAL INSTALLATION TECHNIQUES IN VARIOUS TYPES OF SOILS. THE TAPE IS AVAILABLE IN ENGLISH, SPANISH, FRENCH OR HEBREW.

AVAILABILITY: INTERNATIONAL IRRIGATION INFORMATION CENTER, P.O.B. 49, VOLCANI CENTER, 50 250 BET DAGAN, ISRAEL

IRIS ACCESSION NUMBER: EW014124

PUBLICATION DATE: 82

TITLE: THE PRESSURE CHAMBER.

DESCRIPTOR: *AUDIOVISUAL AIDS; *AGRICULTURE; *IRRIGATION; *MEASUREMENT INSTRUMENTS; *PLANT WATER POTENTIAL; *PRESSURE CHAMBERS; *WATER CONSERVATION; *WATER RESOURCES; *WATER SUPPLY; *VIDEO TAPES

DESCRIPTIVE NOTE: VIDEO 9 1/2 MIN. COST OF EACH CASSETTE: 1/2 IN. BETAMAX FORMAT US$ 60, 1/2 IN. VHS FORMAT US$60, 3/4 IN. U-MATIC FORMAT US$ 70

ABSTRACT: THE PRESSURE CHAMBER, AN INSTRUMENT FOR MEASURING PLANT WATER POTENTIAL, IS USED AS A GUIDE FOR SCHEDULING IRRIGATION IN SOME OF THE COTTON GROWING AREAS IN ISRAEL. PRESSURE MEASUREMENTS ON LEAF SAMPLES ARE CONDUCTED QUICKLY AND EASILY IN THE FIELD AND REPRESENT THE WATER STATUS IN THE PLANT ITSELF, ALLOWING FOR BETTER UNDERSTANDING OF THE

PLANT WATER REQUIREMENTS. THIS TAPE, WHICH IS PART OF THE IRRIGATION CONTROL SERIES, DEMONSTRATES OPERATIONAL PRINCIPLES AND A PRACTICAL METHOD OF SAMPLING AND FIELD TESTING. ALSO DEMONSTRATED IS THE OPERATION OF A COMPACT HYDRAULIC PRESS FOR THE ESTIMATION OF PLANT WATER POTENTIAL. THIS PRESS DOES NOT REQUIRE COMPRESSED AIR AS A PRESSURE SOURCE. THE MEASUREMENTS OF WATER POTENTIAL AT DIFFERENT GROWTH STAGES SHOULD PRESENT AN OVERALL PICTURE OF PLANT-WATER STATUS AND CAN PROVIDE THE FARMER WITH ADDITIONAL INFORMATION FOR IMPROVING IRRIGATION CONTROL AND, CONSEQUENTLY, INCREASING THE EFFICIENCY OF WATER USE. THE TAPE IS AVAILABLE IN ENGLISH, SPANISH OR HEBREW.

AVAILABILITY: INTERNATIONAL IRRIGATION INFORMATION CENTER, P.O.B. 49, VOLCANI CENTER, 50 250 BET DAGAN, ISRAEL

IRIS ACCESSION NUMBER: EW0014129

PUBLICATION DATE: NOV 86

TITLE: WASTEWATER REUSE PROJECT PROCEDURES IMPRESSIVE CROP YIELDS.

PERSONAL AUTHOR: LOWE, JOHN B.; AND OTHERS

DESCRIPTOR: *AGRICULTURE; *IRRIGATION; *WASTEWATER TREATMENT; *WATER REUSE; *WATER SUPPLY

DESCRIPTIVE NOTE: 1026-1029P.

ABSTRACT: DESCRIBED IS A WASTEWATER REUSE PROJECT IN TEXAS THAT HAS PRODUCED YIELDS OF CROPS THAT FAR EXCEED AVERAGE AREA YIELDS.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION; V58 N11

IRIS ACCESSION NUMBER: EW0014130

PUBLICATION DATE: NOV 86

TITLE: WATER POLLUTION CONTROL FEDERATION ISSUE PAPER: ACID PRECIPITATION.

DESCRIPTOR: *ACID PRECIPITATION; *ISSUES; *RESEARCH REVIEWS; *RESEARCH NEEDS; *REGULATIONS; *STATUS REPORTS; *WATER QUALITY

DESCRIPTIVE NOTE: 1030-1033P.

ABSTRACT: THIS PAPER EXAMINES THE CURRENT STATUS OF SCIENTIFIC RESEARCH ON ACID PRECIPITATION IN THE U.S. AND THE EFFECTS ON WATER QUALITY.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION; V58 N11

IRIS ACCESSION NUMBER: EW0014131

PUBLICATION DATE: NOV 86

TITLE: RECLAIMED WATER IRRIGATION TO ELIMINATE SUMMER DISCHARGE.

PERSONAL AUTHOR: DEIS, GARY C.; AND OTHERS

DESCRIPTOR: *AGRICULTURE; *CALIFORNIA; *IRRIGATION; *WASTEWATER TREATMENT; *WATER REUSE; *WATER QUALITY; *WATER SUPPLY

DESCRIPTIVE NOTE: 1034-1038P.

ABSTRACT: PHASED IMPLEMENTATION OF THE PROJECT WILL ELIMINATE THE NEED FOR SUMMER DISCHARGES TO THE RIVER BY 1988, AND SATISFY DISPOSAL CAPACITY NEEDS THROUGH 2000. THIS WILL REDUCE OPERATING COSTS AND COMPLY WITH A PROHIBITION OF SUMMERTIME DISCHARGE.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION; V58 N11

IRIS ACCESSION NUMBER: EW0014132

PUBLICATION DATE: NOV 86

TITLE: MULTIPURPOSE WASTEWATER REUSE.

PERSONAL AUTHOR: SHANNON, J. DAN; AND OTHERS

DESCRIPTOR: *AGRICULTURE; *COSTS; *INDUSTRIAL PROCESSES; *IRRIGATION; *TEXAS; *WASTEWATER TREATMENT; *WATER REUSE; *WATER SUPPLY

DESCRIPTIVE NOTE: 1039-1042P.

ABSTRACT: THE IMMEDIATE PLAN IS TO SERVICE AGRICULTURAL NONPOTABLE URBAN, AND INDUSTRIAL USERS AT A COST LESS THAN THE CURRENT MUNICIPAL WATER RATE BY THE USE OF WASTEWATER EFFLUENT.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION; V58 N11

IRIS ACCESSION NUMBER: EW0014133

PUBLICATION DATE: NOV 86

TITLE: FULL-SCALE STUDIES OF THE TRICKLING FILTER/SOLIDS CONTACT PROCESS.

PERSONAL AUTHOR: MATASCI, RAYMOND N.; AND OTHERS

DESCRIPTOR: *EQUIPMENT; *OPERATIONS (WASTEWATER); *PERFORMANCE EVALUATION; *TRICKLING FILTERS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 1043-1049P.

ABSTRACT: SUSPENDED SOLIDS ENTERING THE FILTER PLAY A KEY-ROLE IN OVERALL PERFORMANCE; THIS EMPHASIZES THE IMPORTANCE OF RELIABLE PRIMARY TREATMENT IN DETERMINING FINAL EFFLUENT QUALITY.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION, V58 N11

IRIS ACCESSION NUMBER: EW814134

PUBLICATION DATE: NOV 86

TITLE: OPERATIONS OF AIR DRIVE ROTATING BIOLOGICAL CONTACTORS.

PERSONAL AUTHOR: SACK, W. A.; AND OTHERS

DESCRIPTOR: *AERATION; *BIOLOGICAL CONTACTORS; *EQUIPMENT; *OPERATIONS (WASTEWATER); *PERFORMANCE EVALUATION; *ROTATING BIOLOGICAL CONTACTORS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 1858-1856P.

ABSTRACT: TWO CAUSES OF SLOW AND UNEVEN SHAFT ROTATION WERE LOW WASTEWATER TEMPERATURES AND LOW AIR RATES; SEVERAL CORRECTIVE MEASURES WERE DETERMINED.

AVAILABILITY: JOURNAL WATER POLLUTION CONTROL FEDERATION; V58 N11

IRIS ACCESSION NUMBER: EW814135

PUBLICATION DATE: NOV 86

TITLE: PROCESS CONTROL FUNDAMENTALS-PART VI; MICROSCOPIC EXAMINATION OF ACTIVATED SLUDGE AND CONTROL OF AERATION RATES.

PERSONAL AUTHOR: HOBSON, TIM

DESCRIPTOR: *ACTIVATED SLUDGE; *AERATION RATES; *ANALYTICAL TECHNIQUES; *BIOLOGICAL INDICATORS; *MICROBIOLOGY; *OPERATIONS (WASTEWATER); *PROCESS CONTROL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 22-27P.

ABSTRACT: THIS ARTICLE DESCRIBES THE EVALUATION OF THE ACTIVATED SLUDGE PROCESS AND CONTROL OF AERATION RATES BY EXAMINING THE MIXED LIQUOR FOR MICROORGANISMS.

AVAILABILITY: OPERATIONS FORUM; V3 N11

IRIS ACCESSION NUMBER: EW814136

PUBLICATION DATE: NOV 86

TITLE: SPECIAL REPORT: TREATMENT OF HAZARDOUS WASTES.

PERSONAL AUTHOR: CHEREMISINOFF, PAUL N.

DESCRIPTOR: *CHEMICAL TREATMENT; *HAZARDOUS MATERIALS; *HAZARDOUS WASTES; *MICROBIAL DEGRADATION; *OPERATIONS (WASTES); *OXIDATION; *THERMAL TREATMENT; *TECHNOLOGY; *WASTE TREATMENT

DESCRIPTIVE NOTE: 29-44P.

ABSTRACT: THIS ARTICLE PROVIDES INFORMATION ON A VARIETY OF APPROACHES FOR TREATING HAZARDOUS WASTES. THE PROCESSES ARE DESCRIBED AND POLLUTANTS THAT CAN BE TREATED BY EACH OF THE PROCESSES ARE INDICATED.

AVAILABILITY: POLLUTION ENGINEERING; V18 N11

IRIS ACCESSION NUMBER: EW814137

PUBLICATION DATE: NOV 86

TITLE: TEAM DEVELOPMENT FOR HIGH PERFORMANCE MANAGEMENT.

PERSONAL AUTHOR: SCHEREMERHORN, JOHN R., JR.

DESCRIPTOR: *MANAGEMENT; *MOTIVATION; *PERFORMANCE EVALUATION; *PERSONNEL; *STAFF DEVELOPMENT; *TRAINING

DESCRIPTIVE NOTE: 38-41P.

ABSTRACT: FOR HIGH LEVELS OF INDIVIDUAL WORK PERFORMANCE TO BE ACHIEVED, PEOPLE MUST HAVE THE RIGHT ABILITIES, SUPPORT, AND BE MOTIVATED. SOME PROCEDURES FOR IMPROVING PERFORMANCE ARE PRESENTED.

AVAILABILITY: TRAINING AND DEVELOPMENT JOURNAL; V40 N11

IRIS ACCESSION NUMBER: EW814138

PUBLICATION DATE: 85

TITLE: MASTERPLAN FOR RURAL WATER SUPPLY AND SANITATION IN THAILAND: FINAL REPORT.

DESCRIPTOR: *PLANNING; *RURAL AREAS; *SANITATION; *WATER SUPPLY; *THAILAND

DESCRIPTIVE NOTE: 134P.

ABSTRACT: THIS IS THE FINAL REPORT OF A FOUR VOLUME REPORT. THE REPORT PRESENTS A COMPREHENSIVE SURVEY OF THE PRESENT WATER SUPPLY AND SANITATION SITUATION OF THE RURAL AREAS IN THAILAND, ANALYSIS OF THE CAUSES OF THE CURRENT PROBLEMS AND RECOMMENDATIONS TO ACHIEVE THE PHYSICAL TARGETS, OBJECTIVES AND GOALS. STUDIES WERE MADE ON THE PHYSICAL, DEMOGRAPHIC, SOCIO-ECONOMIC, HEALTH AND SECTORAL INSTITUTION BACKGROUND OF THE PROGRAM AREA, AND THE EXISTING CONDITIONS OF THE RURAL WATER SUPPLY AND SANITATION SECTORS. BASED ON THE FINDINGS AND ANALYSIS OF THE CURRENT SITUATION, THE RURAL WATER SUPPLY AND SANITATION MASTERPLAN IS PROPOSED WHICH INCLUDES RECOMMENDATIONS ON THE INSTITUTIONAL ASPECTS.

INVESTMENT REQUIREMENTS AND INFORMATION DISSEMINATION. THE STUDY ALSO INCLUDES THE PROJECT MANAGEMENT INFORMATION SYSTEM WHICH INCOPORATES THE ESTABLISHMENT OF A DATABASE FOR THE SECTOR AND THE MONITORING AND EVALUATION OF THE PROGRAM. SEE EW Ø14 139, Ø14 14Ø, AND Ø14 141 FOR OTHER VOLUMES OF THE REPORT.

AVAILABILITY: ENSIC, AIT, P.O. BOX 2754, BANGKOK 1Ø5Ø1 THAILAND

IRIS ACCESSION NUMBER: EWØ14139

PUBLICATION DATE: 85

TITLE: MASTERPLAN FOR RURAL WATER SUPPLY AND SANITATION IN THAILAND: FINAL REPORT, MAIN TEXT.

DESCRIPTOR: *PLANNING; *RURAL AREAS; *SANITATION; *THAILAND; *WATER SUPPLY

DESCRIPTIVE NOTE: 331P.

ABSTRACT: THIS IS THE MAIN TEXT OF A FOUR VOLUME REPORT. SEE EW Ø14 138, Ø14 14Ø, AND Ø14 141 FOR OTHER PARTS.

AVAILABILITY: ENSIC, AIT, PO BOX 2754, BANGKOK 1Ø5Ø1, THAILAND

IRIS ACCESSION NUMBER: EWØ14140

PUBLICATION DATE: 85

TITLE: MASTERPLAN FOR RURAL WATER SUPPLY AND SANITATION IN THAILAND: FINAL REPORT, COMPUTER-BASED INFORMATION SYSTEM.

DESCRIPTOR: *PLANNING; *RURAL AREAS; *SANITATION; *THAILAND; *WATER SUPPLY

DESCRIPTIVE NOTE: 27P.

ABSTRACT: THIS IS THE COMPUTER BASED INFORMATION, ONE VOLUME OF A FOUR VOLUME REPORT. SE EW Ø14 138, Ø14 139, AND Ø14 141 FOR OTHER PARTS.

AVAILABILITY: ENSIC, AIT, P.O. BOX 2754, BANGKOK 1Ø5Ø1, THAILAND

IRIS ACCESSION NUMBER: EWØ14141

PUBLICATION DATE: 85

TITLE: MASTERPLAN FOR RURAL WATER SUPPLY AND SANITATION IN THAILAND: FINAL REPORT, APPENDICES.

DESCRIPTOR: *PLANNING; *RURAL AREAS; *SANITATION; *THAILAND; *WATER SUPPLY

DESCRIPTIVE NOTE: 2ØP.

ABSTRACT: THIS IS THE APPENDICES, ONE VOLUME OF A FOUR VOLUME REPORT. SEE EW Ø14 138, Ø14 139, Ø14 14Ø FOR OTHER PARTS.

AVAILABILITY: ENSIC, AIT, P.O. BOX 2754, BANGKOK 1Ø5Ø1, THAILAND

IRIS ACCESSION NUMBER: EWØ14142

TITLE: BASICS OF WELL CONSTRUCTION. OPERATOR'S GUIDES.

DESCRIPTOR: *CONSTRUCTION; *DESIGN; *DRINKING WATER; *GUIDES; *OPERATIONS (WATER); *INSTRUCTIONAL MATERIALS; *WATER WELLS; *WELLS; *WATER RESOURCES; *WATER SUPPLY

DESCRIPTIVE NOTE: PRICE: $4.5Ø FOR AWWA MEMBERS, $5.5Ø FOR NONMEMBERS

ABSTRACT: THIS GUIDE CONSIDERS WELL DEVELOPMENT, INTAKE DESIGN, WELL DIAMETER AND SITING, AND AQUIFER AND HYDRAULIC CHARACTERISTICS.

AVAILABILITY: AMERICAN WATER ASSOCIATION, COMPUTER SERVICES DEPARTMENT, 6666 WEST QUINCY AVENUE, DENVER, CO 8Ø235

IRIS ACCESSION NUMBER: EWØ14143

TITLE: BASICS OF WELL CONSTRUCTION.

DESCRIPTOR: *AUDIOVISUAL AIDS; *CONSTRUCTION; *DESIGN; *INSTRUCTIONAL MATERIALS; *OPERATIONS (WATER); *WATER WELLS; *WELLS; *WATER RESOURCES; *WATER SUPPLY

DESCRIPTIVE NOTE: PRICE: $5Ø.ØØ FOR AWWA MEMBERS, $62.5Ø FOR NONMEMBERS

ABSTRACT: THIS TRAINING PACKAGE CONSIDERS WELL DEVELOPMENT, INTAKE DESIGN, WELL DIAMETER AND SITING, AND AQUIFER AND HYDRAULIC CHARACTERISTICS. INCLUDED ARE 25 SLIDES, STUDENT HANDOUTS, AND COURSE AND DISCUSSION GUIDES.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION, COMPUTER SERVICES DEPARTMENT, 6666 WEST QUINCY AVENUE, DENVER, CO 8Ø235

IRIS ACCESSION NUMBER: EWØ14144

TITLE: PUMPS-OPERATION AND MAINTENANCE.

DESCRIPTOR: *AUDIOVISUAL AIDS; *EQUIPMENT; *INSTRUCTIONAL MATERIALS; *MAINTENANCE; *OPERATIONS (WASTEWATER); *PUMPS; *TRAINING; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: PRICE: $115.ØØ FOR INSTRUCTOR'S MATERIALS, $25.ØØ FOR STUDENT WORKBOOK

ABSTRACT: THIS TRAINING PACKAGE FOCUSES ON THE OPERATION AND CONTROL OF PUMPS FOR WASTEWATER TREATMENT PLANTS.

CONSIDERED ARE (1) PUMP COMPONENTS, (2) PUMPING STATIONS, (3) CENTRIFUGAL PUMPS, AND (4) POSITIVE DISPLACEMENT PUMPS. INCLUDED IN THE INSTRUCTOR'S MATERIALS ARE SIX CASSETTE TAPES, PROGRAM ADMINISTRATOR'S GUIDE, AND STUDENT MATERIAL.

AVAILABILITY: WATER POLLUTION CONTROL FEDERATION, 601 WYTHE ST. ALEXANDRIA, VA 22314-1994

IRIS ACCESSION NUMBER: EW014145

TITLE: DATA HANDLING SYSTEM.

DESCRIPTOR: *COMPUTER APPLICATIONS; *COMPUTER SOFTWARE; *DATA MANAGEMENT; *OPERATIONS (WATER); *OPERATIONS (WASTEWATER); *RECORDKEEPING; *REPORTING

DESCRIPTIVE NOTE: COMPUTER SOFTWARE; CONTACT COMPANY FOR COSTS.

ABSTRACT: THE DATA HANDLING SYSTEM FOR WATER AND WASTEWATER TREATMENT LABORATORY AND PROCESS CONTROL IS A SPECIALLY DESIGNED PROGRAM FOR DATA MANAGEMENT. ANY TYPE OF DATA (E.G. LAB ANALYSES, OPERATOR TESTS, METER READINGS) CAN BE ENTERED IN ANY ORDER. OTHER PARAMETERS (SRT, F/M RATIO, % REMOVAL, ETC.) ARE CALCULATED BY THE COMPUTER ACCORDING TO FORMULAS ENTERED BY THE USER. VIRTUALLY ANY MATHEMATICAL FUNCTION CAN BE CALCULATED. A MONTHLY SHEET OF DATA CAN BE VIEWED OR PRINTED AT ANY TIME. THIS SHEET PROVIDES A LISTING OF ALL PARAMETERS (INCLUDING THOSE CALCULATED) IN COLUMNS WITH RUNNING COLUMN TOTALS, AVERAGES, MAXIMUMS AND MINIMUMS (SEE DIAGRAM). ANY NOTES FOR THE MONTH APPEAR AT THE BOTTOM OF THE MONTHLY SHEET. DAILY AVERAGES AND TOTALS OF TWO OR MORE COLUMNS ARE ALSO AUTOMATICALLY GENERATED BY THE COMPUTER. FOR EXAMPLE, A COLUMN CONTAINING THE AVERAGE OF SEVERAL AERATION BASIN D.O.'S WOULD FOLLOW THE COLUMNS FOR EACH BASIN. THE DATA HANDLING SYSTEM IS AVAILABLE FOR MOST COMPUTER SYSTEMS INCLUDING THE APPLE IIE/IIC, MACINTOSH, IBM-PC/XT/AT AND IBM COMPATIBLES. THIS PRODUCT HAS BEEN DESIGNED FOR RELEASE AS EITHER PART OF A COMPLETE HARDWARE AND SOFTWARE PACKAGE OR AS A STAND-ALONE SOFTWARE PACKAGE FOR AN EXISTING MICROCOMPUTER.

AVAILABILITY: SYSTEMS/SERVICES ENGINEERING, P.O. BOX 32000, DAYTON, OHIO 45432

IRIS ACCESSION NUMBER: EW014146

TITLE: SCHEDULED WORK SYSTEM.

DESCRIPTOR: *ACCOUNTING; *ADMINISTRATION; *COMPUTER APPLICATIONS; *COMPUTER SOFTWARE; *MAINTENANCE; *MANAGEMENT; *PLANNING; *RECORDKEEPING; *REPORTING; *SCHEDULING; *WORK RECORDS

DESCRIPTIVE NOTE: COMPUTER SOFTWARE; CONTACT COMPANY FOR COSTS.

ABSTRACT: THE SCHEDULED WORK SYSTEM IS A TAILORED APPLICATION OF A COMMERCIAL DATA BASE FOR MANAGING WORK. THE SYSTEM IS ORGANIZED AS A SERIES OF SIMPLE MENUS ENABLING EASY UPDATE AND MODIFICATION OF DATA FILES AS WELL AS REPORT GENERATION. THE SYSTEM GENERATES WORK REQUEST REPORTS BY SPECIFIED FREQUENCY (I.E. DAILY, WEEKLY, MONTHLY, ETC.). A FILE RECORD OF WORK PERFORMED IS MAINTAINED. INFORMATION CAN BE EASILY CHANGED, AND SCREEN FILES RETRIEVED USING ANY ITEM AS A "KEY". MANY REPORTS ARE INCLUDED; HOWEVER, THE USER CAN CREATE HIS/HER OWN REPORTS USING ANY ITEM OF INFORMATION FROM THE FILE RECORD. THE USER MAY, IN FACT, CHANGE THE ENTIRE FILE RECORD (FORM) DESIGN BY EITHER DELETING ANY OR ALL SCREEN FORMAT ITEMS OR BY ADDING NEW ITEMS. USER CHANGES OR MODIFICATIONS REQUIRE NO PROGRAMMING.

AVAILABILITY: SYSTEMS/SERVICES ENGINEERING, P.O. BOX 32000, DAYTON, OHIO 45432

IRIS ACCESSION NUMBER: EW014152

PUBLICATION DATE: APR 86

TITLE: MANAGEMENT OF A CONSTRUCTION PROJECT: A GUIDE FOR GRANTEES.

DESCRIPTOR: *ACCOUNTABILITY; *ADMINISTRATION; *CONSTRUCTION; *CONTRACTS; *FACILITIES; *CONTRACT SCHEDULES; *INSPECTION; *MANAGEMENT; *OPERATIONS (WASTEWATER); *AUDITS; *PLANNING; *WASTEWATER TREATMENT; *USEPA

DESCRIPTIVE NOTE: 37P. PRICE: $3.22

ABSTRACT: THIS MANUAL HAS BEEN PREPARED FOR THE MUNICIPAL OFFICIAL RESPONSIBLE FOR A PROJECT; MUCH OF IT CAN ALSO SERVE AS A REFERENCE FOR A PROJECT MANAGER. THE PUBLICATION PRESENTS HIGHLIGHTS AND LEAVES EXTENSIVE DETAILS TO OTHER AVAILABLE MATERIALS ON THIS TOPIC. MUCH OF THE INFORMATION IN THE MANUAL IS APPLICABLE TO WASTEWATER TREATMENT FACILITY CONSTRUCTION PROJECTS THAT HAVE NOT RECEIVED EPA GRANT ASSISTANCE.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 1200 CHAMBERS ROAD, ROOM 318, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW014153

PUBLICATION DATE: SEP 85

TITLE: GUIDANCE MANUAL FOR THE USE OF PRODUCTION-BASED PRETREATMENT STANDARDS AND THE COMBINED WASTEWATER FORMULA.

DESCRIPTOR: *CATEGORICAL STANDARDS; *COMBINED WASTEWATER FORMULA; *GUIDANCE MANUALS; *OPERATIONS (WASTEWATER); *PRETREATMENT; *REGULATIONS; *STANDARDS; *USEPA; *WASTEWATER TREATMENT; *TREATMENT TECHNOLOGY; *FLOW REDUCTION

DESCRIPTIVE NOTE: 90P. PRICE: $6.40

ABSTRACT: THIS GUIDANCE MANUAL HAS BEEN DEVELOPED BY EPA TO EXPLAIN HOW TO IMPLEMENT TWO IMPORTANT ELEMENTS OF THE NATIONAL PRETREATMENT PROGRAM: CATEGORICAL STANDARDS AND THE COMBINED WASTESTREAM FORMULA. THE MANUAL IS DIVIDED INTO TWO SECTIONS. THE FIRST SECTION EXPLAINS HOW TO APPLY

PRODUCTION-BASED CATEGORICAL STANDARDS IN A PERMIT, CONTRACT, OR SIMILAR MECHANISM. THE SECOND PART EXPLAINS HOW TO USE THE COMBINED WASTESTREAM FORMULA, PROVIDING DEFINITIONS AND EXAMPLES.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 12## CHAMBERS ROAD, ROOM 31#, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW#14154

TITLE: TOUCHING ALL THE BASES: A FINANCIAL MANAGEMENT HANDBOOK FOR YOUR WASTEWATER TREATMENT PROJECT.

DESCRIPTOR: *COSTS; *CONSTRUCTION; *FACILITIES; *ECONOMICS; *FINANCES; *MANAGEMENT; *OPERATIONS (WASTEWATER); *PLANNING; *WASTEWATER TREATMEN

ABSTRACT: THIS HANDBOOK, DEVELOPED FOR EPA'S OFFICE OF MUNICIPAL POLLUTION CONTROL, EXPLAINS HOW TO MANAGE YOUR COMMUNITY'S FINANCES DURING THE PLANNING AND CONSTRUCTION OF A WASTEWATER TREATMENT SYSTEM. THE DOCUMENT DEVOTES APPROPRIATE ATTENTION TO THE KEY EVENTS WHICH MUST PRECEDE THE COMMENCEMENT OF CONSTRUCTION AS WELL AS THOSE ACTIVITIES WHICH MUST BE PERFORMED DURING ACTUAL CONSTRUCTION AND IN PERIOD IMMEDIATELY FOLLOWING.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 12## CHAMBERS ROAD, ROOM 31#, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW#14155

PUBLICATION DATE: AUG 86

TITLE: COST REDUCTION AND SELF-HELP HANDBOOK.

PERSONAL AUTHOR: WESTON, ROY E., INC.

DESCRIPTOR: ENERGY; *COSTS; *COST REDUCTION; *OPERATIONS (WASTEWATER); LABOR; MAINTENANCE; CHEMICALS; ADMINISTRATION; FACILITIES; *PERFORMANCE EVALUATION; WATER SUPPLY; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 1##P. PRICE: $2.##

ABSTRACT: THIS REPORT MAY ASSIST PUBLIC WORKS MANAGERS, ELECTED OFFICIALS AND ENGINEERS TO MORE SYSTEMATICALLY IDENTIFY POTENTIAL PROBLEMS AND MORE FULLY CONSIDER POSSIBLE OPTIONS FOR REDUCING COSTS. ALL ASPECTS OF FACILITY OPERATING COSTS ARE EXPLORED. THE RECOMMENDATIONS AND PROCEDURES IN THE REPORT ARE BASED IN LARGE PART UPON ACTUAL FIELD EXPERIENCE IN 15 COMMUNITIES. ABOUT HALF OF THE COMMUNITIES WERE EXPERIENCING SIGNIFICANT COST/OPERATIONAL PROBLEMS WITH THEIR FACILITIES. THE REMAINDER HAD INITIATED EFFORTS TO IDENTIFY AND IMPLEMENT COST REDUCTION MEASURES. AN ADDITIONAL 2# COMMUNITIES WERE CONTACTED BY TELEPHONE. THEIR EXPERIENCES ARE ALSO REFLECTED IN THIS REPORT.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 12## CHAMBERS ROAD, ROOM 31#, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW#14157

PUBLICATION DATE: SEP 85

TITLE: GUIDANCE MANUAL FOR IRON AND STEEL MANUFACTURING PRETREATMENT STANDARDS.

DESCRIPTOR: *INDUSTRY; *INDUSTRIAL WASTES; *IRON INDUSTRY; *METALS; *REGULATIONS; *PRETREATMENT STANDARDS; *STANDARDS; *STEEL INDUSTRY; *TECHNOLOGY; *WASTEWATER TREATMENT; *WASTEWATER PRETREATMENT; *WATER POLLUTION CONTROL; *WATER QUALITY

DESCRIPTIVE NOTE: 56P. PRICE: $4.36

ABSTRACT: THIS MANUAL PROVIDES INFORMATION TO ASSIST CONTROL AUTHORITIES AND APPROVAL AUTHORITIES IN IMPLEMENTING THE NATIONAL CATEGORICAL PRETREATMENT STANDARDS FOR THE IRON AND STEEL MANUFACTURING POINT SOURCE CATEGORY (4# CFR PART 42#). IT IS DESIGNED TO SUPPLEMENT THE MORE DETAILED DOCUMENTS LISTED AS REFERENCE IN THE MANUAL; IT IS NOT DESIGNED TO REPLACE THEM. IF YOU NEED MORE COMPLETE INFORMATION ON A SPECIFIC ITEM, YOU SHOULD REFER TO THE APPROPRIATE REFERENCE. EPA DEVELOPED THIS MANUAL TO FILL SEVERAL NEEDS. FIRST, IT SHOULD BE USEFUL TO CONTROL AUTHORITIES IN RESPONDING TO MOST ROUTINE INQUIRIES FROM REGULATED MILLS. MORE COMPLEX INQUIRIES MAY REQUIRE THE USE OF THE LISTED REFERENCES. SECOND, THE MANUAL ADDRESSES APPLICATION OF THE COMBINED WASTESTREAM FORMULA TO INTEGRATED FACILITIES WITH REGULATED AND UNREGULATED WASTESTREAMS. IT ALSO PROVIDES CURRENT INFORMATION ON REMOVAL CREDITS, VARIANCE AND REPORTING REQUIREMENTS. IT FURTHER INCORPORATES THE FINAL AMENDMENT TO THE CATEGORICAL STANDARDS REFELECTING THE SETTLEMENT OF LITIGATION ISSUES FOR THE FINAL RULE.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 12## CHAMBERS ROAD, ROOM 31#, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW#14158

PUBLICATION DATE: JUL 86

TITLE: SEPTIC SYSTEMS AND GROUND-WATER PROTECTION. A PROGRAM MANAGER'S GUIDE AND REFERENCE BOOK.

DESCRIPTOR: *CONTAMINATION; *GROUNDWATER; *MANAGEMENT; *PUBLIC HEALTH; *ONSITE DISPOSAL; *ONSITE WASTEWATER TREATMENT; *SEPTIC TANKS; *SEPTIC SYSTEMS; *WASTEWATER TREATMENT; *WATER POLLUTION CONTROL; *WATER QUALITY; *REGULATIONS; *TECHNOLOGY; *RURAL AREAS

DESCRIPTIVE NOTE: 139P. PRICE: $9.34

ABSTRACT: THE USEPA'S OFFICE OF GROUND-WATER PROTECTION HAS RECENTLY DEVELOPED A PUBLICATION FOR LOCAL GOVERNMENT OFFICIALS THAT ADDRESSES THE PROBLEM OF GROUND-WATER CONTAMINATION CAUSED BY MANY OF THE OVER 22 MILLION COMMERCIAL AND RESIDENTAL SEPTIC SYSTEMS IN THIS COUNTRY. EPA HAS FOUND THAT SEPTIC SYSTEMS ARE A MAJOR CONTRIBUTOR TO GROUND-WATER CONTAMINATION, AND THE AGENCY BELIEVES THAT STRENGTHENING LOCAL CONTROL PROGRAMS IS THE BEST WAY OF

PREVENTING FUTURE CONTAMINATION. THIS PUBLICATION WAS WRITTEN TO ASSIST LOCAL GOVERNMENT OFFICIALS AND THEIR TECHNICAL STAFFS. THE REFERENCE BOOK DESCRIBES THE POTENTIAL HAZARDS TO PUBLIC HEALTH AND GROUND-WATER SUPPLIES FROM THE IMPROPER USE OF MALFUNCTIONING, IMPROPERLY MAINTAINED, OR POORLY SITED SEPTIC SYSTEMS, AND OFFERS IDEAS FOR IMPROVING SEPTIC SYSTEM MANAGEMENT PROGRAMS. A BRIEF OVERVIEW DOCUMENT, ENTITLED "SEPTIC SYSTEMS AND GROUND-WATER PROTECTION: AN EXECUTIVE'S GUIDE" ALSO IS AVAILABLE (EW Ø14 159). IT PROVIDES A QUICK DESCRIPTION OF THE RELATIONSHIP BETWEEN SEPTIC SYSTEM USE AND GROUND-WATER CONTAMINATION, AND CONVEYS THE MAIN POINTS DISCUSSED IN THE "PROGRAM MANAGER'S GUIDE AND REFERENCE BOOK".

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 12ØØ CHAMBERS ROAD, ROOM 31Ø, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EWØ14159

PUBLICATION DATE: JUL 86

TITLE: SEPTIC SYSTEMS AND GROUND-WATER PROTECTION. AN EXECUTIVE'S GUIDE.

DESCRIPTOR: *CONTAMINATION; *GROUNDWATER; *MANAGEMENT; *PUBLIC HEALTH; *ONSITE DISPOSAL; *ONSITE WASTEWATER TREATMENT; *SEPTIC TANKS; *SEPTIC SYSTEMS; *WASTEWATER TREATMENT; *WATER POLLUTION CONTROL; *WATER QUALITY; *REGULATIONS; *TECHNOLOGY; *RURAL AREAS

DESCRIPTIVE NOTE: 16P. PRICE: $1.96
ABSTRACT: THIS IS A BRIEF OVERVIEW (EXECUTIVE'S GUIDE) TO EW Ø14 158. IT PROVIDES A QUICK DESCRIPTION OF THE RELATIONSHIP BETWEEN SEPTIC SYSTEM USE AND GROUNDWATER CONTAMINATION AND DISCUSSES IMPORTANT IDEAS FOR MAKING IMPROVEMENTS IN SEPTIC SYSTEM MANAGEMENT PROGRAMS.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 12ØØ CHAMBERS ROAD, ROOM 31Ø, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EWØ14160

PUBLICATION DATE: OCT 86

TITLE: COMBINED SEWER OVERFLOW ANALYSIS METHODOLOGY.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *CONTROL OPTIONS; *COMBINED SEWERS; *COMBINED SEWER OVERFLOW; *OVERFLOW; *SEWERS; *WASTEWATER COLLECTION; *WATER QUALITY; *WASTEWATER STORAGE; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 112P. PRICE: $7.72

ABSTRACT: THE PURPOSE OF THIS REPORT IS TO PROVIDE ENVIRONMENTAL ENGINEERS AND PLANNERS WITH A SYSTEMATIC METHOD FOR ASSESSING WATER QUALITY IMPACTS FROM COMBINED SEWER OVERFLOWS (CSOS) AND FOR EVALUATING THE EFFECT OF CERTAIN CONTROLS. THIS METHODODOLOGY IS PRESENTED TOGETHER WITH EXAMPLES AND DISCUSSION DESIGNED TO PROVIDE THE USER WITH THE INFORMATION NECESSARY TO ACCOMPLISH THE FOLLOWING: (1) MAKE A PRELIMINARY ASSESSMENT OF THE RELATIVE IMPACT OF CSOS ON A RECEIVING WATER; (2) IDENTIFY FEASIBLE CONTROL ALTERNATIVES; AND (3) MAKE EFFECTIVE USE OF AVAILABLE SITE-SPECIFIC DATA AND PUBLISHED LITERATURE VALUES, AND THEREBY AVOID COSTLY AND TIME CONSUMING FIELD STUDIES IN SOME CASES. THIS DOCUMENT IS NOT INTENDED TO PRESENT A COMPREHENSIVE METHOD OF WATER QUALITY ANALYSIS. ITS IBJECTIVE IS TO PROVIDE A PROCEDURE TO ACCOMPLISH THE FIRST STEP IN IDENTIFYING THE NATURE AND SIGNIFICANCE OF CSOS IMPACTS ON A RECEIVING WATER, AND FOR SCREENING CONTROL ALTERNATIVES. IN SOME INSTANCES, USE OF THESE PROCEDURES MAY YIELD SUFFICIENT INFORMATION TO SELECT AN APPROPRIATE CONTROL STRATEGY; HOWEVER, THIS DOCUMENT DOES NOT PROVIDE A COMPREHENSIVE OVERVIEW OF DETERMINISTIC WATER QUALITY MODELS OR TREATMENT TECHNOLOGIES. IT IS EXPECTED THAT IN MOST CASES A MORE DETAILED ANALYSIS AND A MORE IN-DEPTH ASSESSMENT OF AVAILABLE TREATMENT TECHNOLOGIES WILL BE REQUIRED BEFORE A SUBSTANTIAL INVESTMENT IS MADE IN ADDRESSING CSOS PROBLEMS. REFERENCES ARE PROVIDED TO DIRECT THE USER TO SOURCES OF INFORMATION FOR THE MORE DETAILED AND COMPREHENSIVE ANALYSIS PROCEDURES.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 12ØØ CHAMBERS ROAD, ROOM 31Ø, COLUMBUS, OH 43212

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*INDUSTRIAL PROCESSES	(1)	EW014132						
*INDUSTRIAL WASTES	(12) EW014076	EW013808 EW014080	EW013889 EW014097	EW013891 EW014099	EW013893 EW014157	EW013973	EW014015	EW014020
*INDUSTRIAL WASTEWATER	(1)	EW014097						
*INDUSTRY	(5)	EW013921	EW014020	EW014080	EW014096	EW014157		
*INFECTIOUS WASTES	(1)	EW013881						
*INFILTRATION	(1)	EW013933						
*INFLOW	(1)	EW013933						
*INFLUENT	(1)	EW014003						
*INFORMATION PROCESSING	(1)	EW014002						
*INFORMATION SERVICES	(1)	EW014109						
*INFORMATION SOURCES	(1)	EW013998						

*INNOVATIONS	(1)	EW013974						
*INNOVATIVE TECHNOLOGY	(1)	EW013938						
*INSPECTION	(2)	EW014001	EW014152					
*INSTITUTIONS	(1)	EW013895						
*INSTRUCTIONAL MATERIALS	(6)	EW013925	EW014068	EW014071	EW014142	EW014143	EW014144	
*INSTRUMENTATION	(1)	EW014031						
*INTERACTIVE VIDEODISCS	(1)	EW013925						
*INTERNATIONAL PROBLEMS	(1)	EW014087						
*IRON INDUSTRY	(1)	EW014157						
*IRON PIPES	(1)	EW013963						
*IRRIGATION	(10)	EW013969	EW014065	EW014120	EW014121	EW014122	EW014123	EW014124
	EW014129	EW014131	EW014132					
*IRRIGATION CONTROLS	(1)	EW014123						
*ISRAEL	(1)	EW014120						
*ISSUES	(2)	EW014021	EW014130					
*JOB PERFORMANCE	(1)	EW013924						
LABOR	(1)	EW014155						
*LABORATORIES	(1)	EW014109						
*LABORATORY PROCEDURES	(6)	EW013916	EW013968	EW013974	EW014034	EW014089	EW014113	
*LABORATORY TECHNIQUES	(1)	EW014031						
*LAGOONS	(2)	EW013897	EW014010					
*LAKES	(2)	EW013920	EW013980					
*LANDFILLS	(1)	EW014110						
*LAND USE	(1)	EW014017						
LAND USE	(1)	EW013999						
*LEACHATE	(1)	EW014110						
*LEAK DETECTION	(2)	EW013961	EW013978					
*LEGAL ASPECTS	(1)	EW014029						
*LEGISLATION	(9)	EW013941	EW013942	EW013943	EW013944	EW013945	EW013946	EW013947
	EW014017	EW014087						
LIGHTING	(1)	EW014028						
*LIMNOLOGY	(1)	EW013980						
*LINERS	(1)	EW013906						

*MAINTENANCE	(14)	EW013910	EW013950	EW013971	EW013975	EW013978	EW013990	EW014005
	EW014015	EW014022	EW014034	EW014040	EW014085	EW014144	EW014146	
MAINTENANCE	(3)	EW013882	EW013884	EW014155				
*MANAGEMENT	(38)	EW013895	EW013906	EW013922	EW013923	EW013924	EW013943	EW013953
	EW013971	EW013991	EW013992	EW013997	EW014002	EW014004	EW014006	EW014007
	EW014011	EW014012	EW014014	EW014017	EW014018	EW014028	EW014037	EW014061
	EW014063	EW014066	EW014069	EW014072	EW014088	EW014090	EW014091	EW014093
	EW014112	EW014137	EW014146	EW014152	EW014154	EW014158	EW014159	
MANAGEMENT	(2)	EW013973	EW014013					
*MANAGERS	(1)	EW013924						
*MANUALS	(1)	EW013887						
*MANUFACTURERS	(1)	EW013987						
*MARINE ENVIRONMENT	(1)	EW014026						
MARINE ENVIRONMENTS	(1)	EW013999						
MARKETING	(1)	EW013973						
*MARYLAND	(2)	EW013930	EW014001					
*MATERIAL PRODUCTION	(1)	EW013925						
*MATERIALS HANDLING	(2)	EW013740	EW013887					
*MEASUREMENT	(3)	EW014009	EW014031	EW014073				
*MEASUREMENT INSTRUMENTS	(2)	EW014123	EW014124					
*MEMBRANE FILTRATION	(1)	EW013972						
*METAL FINISHING	(1)	EW014015						
*METALS	(6)	EW013886	EW013917	EW013977	EW014015	EW014099	EW014157	
METALS	(1)	EW013970						
*METEOROLOGY	(1)	EW013980						
*METERS	(1)	EW014041						
*METHANE	(1)	EW013936						
*METHANOGENS	(1)	EW013936						
*MICROBIAL DEGRADATION	(1)	EW014136						
*MICROBIOLOGY	(4)	EW013888	EW013968	EW014089	EW014135			
*MICROCOMPUTERS	(1)	EW014069						
*MICROORGANISMS	(1)	EW014084						
*MODELING	(1)	EW014110						
*MODELS	(3)	EW013788	EW014003	EW014004				
*MONITORING	(12)	EW013919	EW013960	EW013961	EW013966	EW013967	EW013974	EW014009

	EW014027	EW014078	EW014082	EW014110	EW014111			
*MONITORING WELLS	(1)	EW013959						
MONTANA	(1)	EW013945						
*MOTIVATION	(2)	EW013923	EW014137					
*MULTIPLE USE	(1)	EW013945						
*NATIONAL WILDLIFE FEDERATION	(1)	EW013982						
*NATURAL PRESERVATION	(1)	EW014019						
*NATURAL RADIOACTIVITY	(1)	EW014029						
*NATURAL RESOURCES	(4)	EW013945	EW013946	EW014038	EW014086			
NATURAL RESOURCES	(2)	EW013947	EW014012					
NEGOTIATIONS	(1)	EW013944						
*NEW JERSEY	(2)	EW013948	EW014042					
NEW MEXICO	(1)	EW013944						
*NITRATES	(1)	EW014084						
*NITROGEN REMOVAL	(1)	EW013927						
*NONPOINT SOURCE POLLUTION	(2)	EW013908	EW013909					
*NPDES	(1)	EW014060						
*OCCUPATIONAL HEALTH	(1)	EW013892						
*OIL POLLUTION	(1)	EW013954						
*OILSPILL BOOMS	(2)	EW013987	EW013988					
*OIL SPILLS	(1)	EW013955						
*OILSPILLS	(2)	EW013987	EW013988					
*OILSPILL SKIMMERS	(2)	EW013987	EW013988					
*ONSITE DISPOSAL	(2)	EW014158	EW014159					
*ONSITE WASTEWATER TREATMENT	(5)	EW013910	EW013930	EW014005	EW014158	EW014159		
OPERATIONS	(2)	EW013882	EW013884					
*OPERATIONS (WASTES)	(1)	EW014136						
*OPERATIONS (WASTEWATER)	(58)	EW013889	EW013890	EW013891	EW013893	EW013897	EW013910	EW013914
	EW013916	EW013926	EW013927	EW013929	EW013930	EW013932	EW013937	EW013938
	EW013939	EW013950	EW013951	EW013952	EW013953	EW013964	EW013968	EW013971
	EW013973	EW013974	EW013975	EW014001	EW014002	EW014003	EW014005	EW014006
	EW014007	EW014008	EW014009	EW014010	EW014015	EW014022	EW014024	EW014034
	EW014059	EW014065	EW014066	EW014080	EW014089	EW014092	EW014096	EW014097
	EW014099	EW014113	EW014133	EW014134	EW014135	EW014144	EW014145	EW014152
	EW014153	EW014154	EW014155					
*OPERATIONS (WATER)	(28)	EW013901	EW013902	EW013928	EW013935	EW013962	EW013971	EW013974

	EW013978 EW013998 EW013994 EW013995 EW014004 EW014034 EW014039 EW014040 EW014042 EW014066 EW014069 EW014070 EW014072 EW014075 EW014084 EW014085 EW014094 EW014115 EW014142 EW014143 EW014145	
*ORGANIC CHEMICALS	(1)	EW013960
ORGANIC SOLVENTS	(1)	EW013882
*OVERFLOW	(1)	EW014160
*OXIDATION	(1)	EW014136
*OXIDATION DITCHES	(1)	EW013927
*OZONE	(1)	EW014042
*PAPER INDUSTRY	(1)	EW013889
PAPER INDUSTRY	(1)	EW013970
*PATENTS	(1)	EW013972
*PATHOGENS	(1)	EW014000
*PENNSYLVANIA	(2)	EW013931 EW014086
*PERFORMANCE EVALUATION	(28) EW013889 EW013890 EW013891 EW013901 EW013902 EW013906 EW013913 EW013923 EW013932 EW013938 EW013950 EW013952 EW013960 EW013964 EW013975 EW013976 EW013987 EW014003 EW014006 EW014007 EW014008 EW014009 EW014010 EW014024 EW014133 EW014134 EW014137 EW014155	
PERFORMANCE EVALUATION	(2)	EW013910 EW013988
*PERFORMANCE EVALUATIONS	(1)	EW013922
*PERMITS	(2)	EW013979 EW014060
*PERSONNEL	(6)	EW013922 EW013923 EW013924 EW014005 EW014011 EW014137
*PESTICIDES	(1)	EW014021
*PHENOL	(1)	EW013904
*PIPES	(4)	EW013963 EW014039 EW014040 EW014070
*PLANNING	(17) EW013992 EW014012 EW014014 EW014025 EW014035 EW014058 EW014066 EW014090 EW014091 EW014112 EW014138 EW014139 EW014140 EW014141 EW014146 EW014152 EW014154	
PLANNING	(1)	EW013971
*PLANT WATER POTENTIAL	(1)	EW014124
*PLASTIC PIPES	(1)	EW013977
*PLUMBING	(4)	EW013917 EW013956 EW013977 EW014094
*POLICIES	(17) EW013908 EW013909 EW013921 EW013940 EW013941 EW013945 EW013946 EW013982 EW014004 EW014012 EW014021 EW014025 EW014038 EW014087 EW014088 EW014090 EW014093	
*POLLUTANTS	(1)	EW014097

*POLLUTION	(2)	EW013912	EW014026					
*POLLUTION CONTROL	(13)	EW013740	EW013993	EW014019	EW014023	EW014025	EW014026	EW014027
	EW014035	EW014076	EW014088	EW014088	EW014090	EW014116		
*POLLUTION PREVENTION	(1)	EW013970						
*POLYETHYLENE COVERING	(1)	EW013963						
*POROUS MEDIA	(1)	EW013788						
*PRACTICES	(1)	EW013982						
*PRESSURE CHAMBERS	(1)	EW014124						
*PRESSURE DOSING	(1)	EW013910						
*PRESSURE SYSTEMS	(1)	EW013910						
*PRETREATMENT	(1)	EW014153						
*PRETREATMENT STANDARDS	(1)	EW014157						
*PRIVATE SECTOR ROLE	(1)	EW013997						
*PRIVATIZATION	(1)	EW014079						
*PROCESS CONTROL	(8)	EW013953	EW013971	EW014001	EW014002	EW014006	EW014092	EW014113
	EW014135							
*PROCESS CONTROLS	(2)	EW014007	EW014024					
*PROGRESS REPORTS	(1)	EW013938						
*PROJECT DESCRIPTIONS	(1)	EW013938						
PUBLIC ATTITUDES	(1)	EW013999						
*PUBLIC HEALTH	(19)	EW013930	EW013949	EW013956	EW013977	EW013993	EW013994	EW014008
	EW014018	EW014021	EW014023	EW014025	EW014029	EW014035	EW014061	EW014065
	EW014093	EW014112	EW014158	EW014159				
PUBLIC HEALTH	(1)	EW013973						
*PUBLIC PARTICIPATION	(2)	EW013920	EW014086					
*PUBLIC RIGHTS	(1)	EW013945						
*PUBLIC SAFETY	(1)	EW014116						
*PULP INDUSTRY	(1)	EW013891						
*PUMPS	(1)	EW014144						
QUALITY CONTROL	(1)	EW013973						
*RADIATION	(1)	EW014014						
*RADIATION PROTECTION PROGRAMS	(1)	EW014014						
*RADIOACTIVITY	(1)	EW014029						
*RADIONUCLIDES	(1)	EW014084						

*RATES	(1)	EW0140072						
*RAW SLUDGE	(1)	EW0140059						
*RCRA	(1)	FW013979						
*READINGS	(1)	EW014036						
*RECLAIMED WASTEWATER	(1)	EW013969						
*RECLAMATION	(1)	EW014082						
*RECOMBINANT DNA	(1)	EW013936						
*RECOMMENDATIONS	(2)	EW013908	EW013909					
*RECORDKEEPING	(2)	EW014145	EW014146					
*RECREATION	(1)	EW013945						
*RECYCLING	(7)	EW013893	EW013931	EW013947	EW013969	EW013973	EW014017	EW014064
RECYCLING	(1)	EW013913						
*REFERENCE MATERIALS	(1)	EW013998						
*REGULATIONS	(21) EW014014 EW014093	EW013881 EW014017 EW014130	EW013905 EW014018 EW014153	EW013940 EW014060 EW014157	EW013943 EW014061 EW014158	EW013966 EW014072 EW014159	EW013977 EW014076	EW013979 EW014082
REGULATIONS	(1)	EW014012						
*REMOTE METER READING	(1)	EW014041						
*REPORTING	(2)	EW014145	EW014146					
*RESEARCH	(4)	EW013972	EW013980	EW014064	EW014115			
RESEARCH	(1)	EW014095						
*RESEARCH NEEDS	(4)	EW013972	EW014021	EW014093	EW014130			
*RESEARCH REPORTS	(10) EW014003	EW013887 EW014019	EW013907 EW014020	EW013917	EW013936	EW013937	EW013954	EW013955
*RESEARCH REVIEWS	(1)	EW014130						
*RESOURCE CONSERVATION AND RECOVERY ACT	(1)	EW013979						
*RESOURCE RECOVERY	(8) EW014065	EW013882	EW013884	EW013913	EW013931	EW013973	EW014017	EW014064
*RISK ANALYSIS	(1)	EW014027						
*RISK ASSESSMENT	(3)	EW013904	EW013905	EW014061				
*RIVERS	(1)	EW013967						
RIVERS	(1)	EW014119						
*ROTATING BIOLOGICAL CONTACTORS	(1)	EW014134						
*RURAL AREAS	(7)	EW013930	EW014138	EW014139	EW014140	EW014141	EW014158	EW014159

*SAFETY	(7)	EW013748 EW013993 EW014014 EW014023 EW014032 EW014068 EW014085
SAFETY	(1)	EW013884
*SALINITY	(1)	EW014128
SALTWATER INTRUSION	(1)	EW014013
*SAMPLING	(3)	EW013967 EW014078 EW014110
*SANITATION	(5)	EW014037 EW014138 EW014139 EW014140 EW014141
*SCHEDULING	(1)	EW014146
SCIENCES	(1)	EW014109
SEEPAGE	(1)	EW014013
*SELECTION	(1)	EW014009
*SEPTIC SYSTEMS	(2)	EW014158 EW014159
*SEPTIC TANKS	(4)	EW013910 EW014005 EW014158 EW014159
*SEWAGE	(3)	EW013808 EW013914 EW013968
*SEWAGE REHABILITATION	(1)	EW013933
*SEWAGE SAG	(1)	EW014022
*SEWAGE SLUDGE	(1)	EW013913
*SEWERS	(5)	EW013933 EW013949 EW014022 EW014066 EW014160
*SITE INVESTIGATION	(1)	EW014035
*SLUDGE	(12)	EW013898 EW013913 EW013929 EW013931 EW013937 EW013951 EW013952 EW013968 EW013973 EW014007 EW014008 EW014024
*SLUDGE DEWATERING	(1)	EW013937
*SLUDGE DISPOSAL	(2)	EW014008 EW014059
*SLUDGE HANDLING	(1)	EW014059
*SLUDGE INCINERATION	(1)	EW013939
*SLUDGE TREATMENT	(1)	EW013898
*SMALL FLOWS	(1)	EW014005
SOIL	(1)	EW013910
*SOILS	(2)	EW014022 EW014035
*SOLIDS HANDLING	(1)	EW013929
*SOLID WASTES	(4)	EW013979 EW014017 EW014023 EW014110
*SOLVENT RECOVERY	(2)	EW013882 EW013884
SOLVENTS	(1)	EW013882
*SORPTION	(1)	EW013960

*SPECIFICATIONS	(2)	EW013934	EW013998					
*SPILLS	(1)	EW014027						
*STAFF DEVELOPMENT	(5)	EW013922	EW013923	EW013924	EW014011	EW014137		
*STANDARDS	(3)	EW014039	EW014153	EW014157				
*STATE ROLE	(1)	EW013997						
*STATES	(1)	EW013999						
*STATISTICS	(1)	EW014073						
STATISTICS	(1)	EW013998						
*STATUS	(1)	EW014021						
*STATUS REPORTS	(1)	EW014130						
*STEEL INDUSTRY	(1)	EW014157						
*STORAGE TANKS	(3)	EW013905	EW013961	EW013993				
*STORMWATER	(1)	EW014066						
*SURFACE RUNOFF	(1)	EW013167						
*SURVEYS	(3)	EW013921	EW013959	EW014039				
*TABLES	(1)	EW014073						
*TANKS	(1)	EW013905						
*TECHNICAL INFORMATION CENTERS	(1)	EW014109						
*TECHNOLOGY	(19)	EW013936	EW013937	EW013938	EW013961	EW013972	EW013974	EW013976
	EW014018	EW014021	EW014064	EW014065	EW014067	EW014080	EW014083	EW014097
	EW014136	EW014157	EW014158	EW014159				
TECHNOLOGY	(2)	EW013925	EW014012					
*TENSIOMETERS	(1)	EW014123						
*TESTING	(1)	EW013975						
*TEXAS	(1)	EW014132						
TEXTILES	(1)	EW013970						
*THAILAND	(4)	EW014138	EW014139	EW014140	EW014141			
*THERMAL TREATMENT	(1)	EW014136						
*THESAURI	(1)	EW014033						
*THMS	(1)	EW013994						
*TOXICOLOGY	(1)	EW014061						
*TOXIC SUBSTANCES	(10)	EW013892	EW013904	EW013915	EW013918	EW013919	EW013920	EW013993
	EW014020	EW014023	EW014116					
*TRAINING	(5)	EW013921	EW013928	EW014001	EW014137	EW014144		

*TRAINING DIRECTORS	(1)	EW013921
*TRAINING NEEDS	(1)	EW013928
*TRANSPORTATION	(2)	EW014014 EW014088
*TREATMENT TECHNOLOGY	(1)	EW014153
*TRENCHING	(1)	EW014068
*TREND-CHARTING	(1)	EW013953
*TRENDS	(4)	EW013941 EW013997 EW013999 EW014119
*TRICKLING FILTERS	(2)	EW013932 EW014133
*TRIHALOMETHANE	(1)	EW013994
*TROUBLESHOOTING	(2)	EW013990 EW014015
*TURBIDITY	(1)	EW014084
*ULTRAFILTRATION	(1)	EW014067
*UNDERGOUND STORAGE TANKS	(1)	EW013961
*UNITED KINGDOM	(1)	EW014088
*URBAN AREAS	(2)	EW014066 EW014086
*USEPA	(4)	EW013938 EW013940 EW014152 EW014153
*USER CHARGES	(1)	EW013930
*U.S. GEOLOGICAL SURVEY	(1)	EW014119
UTAH	(2)	EW013927 EW013944
*UTILITIES	(3)	EW014069 EW014079 EW014115
*VALUES	(1)	EW014036
*VIDEODISCS	(1)	EW013925
*VIDEO TAPES	(5)	EW014120 EW014121 EW014122 EW014123 EW014124
*VOCABULARY	(1)	EW014033
*WASTE COLLECTION	(1)	EW014017
*WASTE DISPOSAL	(20)	EW013881 EW013887 EW013890 EW013898 EW013899 EW013900 EW013906 EW013931 EW013939 EW013979 EW014015 EW014017 EW014020 EW014023 EW014026 EW014035 EW014076 EW014088 EW014099 EW014110
WASTE DISPOSAL	(1)	EW013913
*WASTE MANAGEMENT	(5)	EW013881 EW013895 EW013906 EW013970 EW013973
*WASTE REDUCTION	(3)	EW013884 EW013970 EW014076

WASTE REDUCTION	(1)	EW013882
*WASTES	(4)	EW013881 EW013895 EW013898 EW013899
*WASTE STORAGE	(4)	EW013881 EW013887 EW013905 EW013906
WASTE STORAGE	(1)	EW013979
*WASTE TRANSPORT	(1)	EW013788
*WASTE TREATMENT	(4)	EW013881 EW013890 EW014020 EW014136
WASTE TREATMENT	(1)	EW013979
*WASTEWATER	(2)	EW013969 EW014099
*WASTEWATER COLLECTION	(7)	EW013933 EW013949 EW014003 EW014022 EW014023 EW014066 EW014160
*WASTEWATER FLOW	(1)	EW014003
*WASTEWATER PRETREATMENT	(1)	EW014157
*WASTEWATER REUSE	(1)	EW014065
*WASTEWATER STORAGE	(1)	EW014160
*WASTEWATER TREATMENT	(67)	EW013808 EW013889 EW013890 EW013891 EW013893 EW013897 EW013914
	EW013916	EW013926 EW013927 EW013929 EW013930 EW013931 EW013932 EW013936
	EW013937	EW013938 EW013939 EW013940 EW013950 EW013951 EW013952 EW013953
	EW013964	EW013968 EW013971 EW013974 EW013975 EW014001 EW014002 EW014003
	EW014005	EW014006 EW014007 EW014008 EW014009 EW014010 EW014015 EW014020
	EW014024	EW014034 EW014037 EW014058 EW014059 EW014065 EW014066 EW014067
	EW014080	EW014089 EW014092 EW014096 EW014097 EW014099 EW014113 EW014129
	EW014131	EW014132 EW014133 EW014134 EW014135 EW014144 EW014152 EW014153
	EW014155	EW014157 EW014158 EW014159
WATER	(1)	EW013999
*WATER ALLOCATION	(1)	EW013944
*WATER CONSERVATION	(6)	EW013946 EW013947 EW013969 EW013997 EW014123 EW014124
*WATER DISTRIBUTION	(13)	EW013917 EW013956 EW013962 EW013963 EW013965 EW013966 EW013977
	EW013978	EW013995 EW014039 EW014040 EW014070 EW014094
*WATER FLOW	(2)	EW013788 EW014040
*WATER INDUSTRY	(1)	EW014079
*WATER LAW	(2)	EW013941 EW013944
*WATER METERS	(2)	EW013978 EW014041
*WATER PIPES	(6)	EW013917 EW013963 EW013977 EW014040 EW014070 EW014094
*WATER POLLUTION	(1)	EW013915
*WATER POLLUTION CONTROL	(16)	EW013908 EW013909 EW013912 EW013976 EW013982 EW013987 EW013988
	EW013991	EW014026 EW014060 EW014095 EW014097 EW014157 EW014158 EW014159
	EW014160	

*WATER QUALITY	(36)	EW013886	EW013888	EW013908	EW013909	EW013917	EW013946	EW013947
	EW013949	EW013959	EW013966	EW013967	EW013977	EW013980	EW013982	EW013992
	EW013995	EW014004	EW014018	EW014019	EW014029	EW014037	EW014075	EW014078
	EW014082	EW014094	EW014097	EW014110	EW014112	EW014119	EW014120	EW014130
	EW014131	EW014157	EW014158	EW014159	EW014160			
WATER QUALITY	(3)	EW013976	EW014071	EW014093				
*WATER RATES	(1)	EW014072						
*WATER RESOURCES	(36)	EW013941	EW013942	EW013943	EW013944	EW013945	EW013946	EW013947
	EW013969	EW013980	EW013982	EW013991	EW013992	EW013997	EW014004	EW014012
	EW014013	EW014018	EW014021	EW014029	EW014038	EW014063	EW014071	EW014073
	EW014078	EW014082	EW014083	EW014095	EW014111	EW014112	EW014119	EW014120
	EW014121	EW014122	EW014124	EW014142	EW014143			
WATER RESOURCES	(1)	EW013976						
*WATER REUSE	(7)	EW013946	EW013947	EW013969	EW014083	EW014129	EW014131	EW014132
*WATER RIGHTS	(2)	EW013942	EW013943					
*WATERSHEDS	(1)	EW013949						
*WATER SUPPLY	(41)	EW013917	EW013941	EW013942	EW013943	EW013944	EW013946	EW013947
	EW013978	EW013991	EW013992	EW013997	EW014012	EW014013	EW014018	EW014021
	EW014029	EW014037	EW014063	EW014066	EW014072	EW014075	EW014079	EW014082
	EW014083	EW014095	EW014112	EW014119	EW014120	EW014121	EW014122	EW014123
	EW014124	EW014129	EW014131	EW014132	EW014138	EW014139	EW014140	EW014141
	EW014142	EW014143						
WATER SUPPLY	(2)	EW014071	EW014155					
*WATER SYSTEMS	(1)	EW014085						
*WATER TREATMENT	(30)	EW013894	EW013896	EW013901	EW013902	EW013911	EW013928	EW013935
	EW013966	EW013971	EW013974	EW013976	EW013990	EW013994	EW013995	EW014021
	EW014034	EW014038	EW014039	EW014042	EW014066	EW014067	EW014069	EW014070
	EW014075	EW014084	EW014085	EW014094	EW014095	EW014096	EW014115	
WATER TREATMENT	(1)	EW014071						
*WATER USE	(3)	EW013941	EW013944	EW014119				
*WATER UTILITIES	(1)	EW014069						
*WATER WELLS	(7)	EW013959	EW013960	EW013991	EW014013	EW014111	EW014142	EW014143
*WELLS	(3)	EW014111	EW014142	EW014143				
WILDLIFE	(1)	EW013999						
*WORK RECORDS	(1)	EW014146						
*WORLD PROBLEMS	(4)	EW014019	EW014025	EW014037	EW014091			
*ZINC	(2)	EW013918	EW013919					